ARCTIC DATA COMPILATION AND APPRAISAL
VOLUME 2
Beaufort Sea: Chemical Oceanography

D.J. Thomas[1], R.W. Macdonald[2] and A.B. Cornford[2]

[1]Arctic Laboratories Limited
Sidney, B.C., V8L 3S1
and
[2]Institute of Ocean Sciences
Department of Fisheries and Oceans
Sidney, B.C., V8L 4B2

1982

CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES
NO. 5

Fisheries and Oceans Pêches et Océans

Canada

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES NO. 5

1982

ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 2

Beaufort Sea: Chemical Oceanography

by

D.J. Thomas[1], R.W. Macdonald[2] and A.B. Cornford[2]

[1] Arctic Laboratories Limited
Sidney, B.C, V8L 3S1

[2] Institute of Ocean Sciences
Department of Fisheries and Oceans
Sidney, B.C., V8L 4B2

Institute of Ocean Sciences
Department of Fisheries and Oceans
Sidney, B.C., V8L 4B2

PREFACE

These catalogues are produced by the Ocean Information Division at the Institute of Ocean Sciences. Joint government and industry contract projects have catalogued marine data sets their focus being primarily upon oceanography and fisheries. Data set quality appraisals are included to assist in establishing the usefulness of certain data for particular kinds of analyses and the confidence to be placed in interpretations. These appraisals will assist in setting priorities for incorporating the most useful data in the national Marine Environmental Data Service (MEDS) archives. Additional uses include research planning (especially for climatological studies), and the provision of the best available resume of marine data sources for environmental assessments.

The accelerating pace of Arctic offshore development activity has emphasized the need to review the sufficiency and suitability of available scientific information for design, regulatory and planning purposes. This review has been divided into three phases: (1) compilation and appraisal of all existing data sets; (2) analysis of the suitability of the historical data for contributing to questions of particular interest; and (3) analysis and interpretation of data and estimation of the scientific confidence in answering particular questions. This report on the chemical oceanographic data of the Southeastern Beaufort Sea represents the results of the first phase.

Dr. Alan B. Cornford
Scientific Editor
Arctic Data Compilation
and Appraisal Series

Copyright Minister of Supply and Services Canada - 1982

Cat. No. Fs 97-16/5   ISSN 0711-672

The correct citation for this publication is:

D.J. Thomas, R.W. Macdonald and A.B. Cornford. Arctic Data Compilation and Appraisal. Volume 2. Beaufort Sea: Chemical Oceanography.

Can. Data Rep. Hydrogr. Ocean Sci. 5: 243 pp.

TABLE OF CONTENTS

	Page
PREFACE	ii
TABLE OF CONTENTS	iii
ABSTRACT	v
ACKNOWLEDGEMENTS	vi
SPECIAL CREDITS	vii
VOLUME ABSTRACT	1
1. INTRODUCTION	1
2. STUDY AREA	2
3. CHEMICAL DATA PRESENTATION	3
3.1 Types of data	3
3.2 Concentration units	4
4. OUTLINE OF DATA INVENTORY ORGANIZATION	10
4.1 Description of table headings	11
4.1.1 Table 1	11
4.1.2 Table 2	12
4.1.3 Table 3	13
4.2 Sample use of the inventory	13
5. DATA RATING SYSTEM	15
5.1 Data quality criteria	15
5.2 Definition of the rating system	18
5.3 Significance of the data rating value	20
5.4 Effect of positioning on the data quality	21

TABLE OF CONTENTS (continued)

Page

5.5 Some important factors relating to the data appraisal process 22

5.5.1 Heavy metals 22
5.5.2 Nutrients 28
5.5.3 Dissolved oxygen 29
5.5.4 Hydrocarbons 30
5.5.5 Chlorinated hydrocarbons 32

6. **REFERENCES** 33

7. **DATA INVENTORY TABLE 1. DATA SET LISTING** 43

8. **DATA INVENTORY TABLE 2. LISTING OF DATA BY PARAMETER** 85

9. **DATA INVENTORY TABLE 3. LISTING OF MEASUREMENT LOCATIONS** 137

10. **MAPS** 197

11. **INDICES** 229

11.1 Geographical 231

11.2 References by data set number 234

ABSTRACT

D.J. Thomas, R.W. Macdonald and A.B. Cornford. Arctic Data Compilation and Appraisal. Volume 2. Beaufort Sea: Chemical Oceanography.

Can. Data Rep. Hydrogr. Ocean Sci. 5: 243 pp.

This volume is one of a group of catalogues designed to compile and appraise marine data sets for the Canadian Arctic. For ease of reference, the group has been organized with its subject matter divided into three disciplines: physics, chemistry and biology. The Arctic has been arbitrarily divided into seven geographical areas to include, where possible, major oceanographic regions. The format has been structured to facilitate comparison between subjects and regions. With such a large undertaking it is not possible to provide all reports at once. Therefore catalogues which are presently available in the series are indicated on the inside back cover of each volume.

Data collection is a continuing process and further updates of the catalogues are planned. Readers are invited to submit corrections and additions by writing the issuing establishment. These corrections will be incorporated in on-line computerized data set listings; they will be continuously available upon request.

SOMMAIRE

D.J. Thomas, R.W. Macdonald and A.B. Cornford. Arctic Data Compilation and Appraisal. Volume 2. Beaufort Sea: Chemical Oceanography.

Can. Data Rep. Hydrogr. Ocean Sci. 5: 243 pp.

Le présent volume fait partie d'un groupe de catalogues destinés à compiler et à évaluer les séries de données marines sur l'Arctique canadien. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. L'Arctique a été divisé arbitrairement en sept régions géographiques qui englobent autant que possible les grandes régions océanographiques. Les catalogues sont présentés de façon à faciliter la comparaison entre les sujets et les régions. Le domaine est si vaste qu'il est impossible de fournir tous les catalogues en une seule fois. Les catalogues de la série actuellement disponibles sont indiqués à la fin de chaque volume à l'interieur de la couverture.

La collecte des données est un processus permanent et il est prévu de mettre à jour les catalogues par la suite. Les lecteurs sont invités a soumettre par écrit les corrections et les additions à l'établissement auteur. Ces corrections seront traitées en direct sur ordinateur et incorporées aux listes qui pourront être obtenus sur demande.

ACKNOWLEDGEMENTS

The authors wish to acknowledge contributions from many people who assisted with the preparation of the inventory compilation. Brian Smiley of the Institute of Ocean Sciences, Ocean Information Division contributed to format design and provided valuable comment and criticism throughout the project. M. Kaye, T. Yu and L. Maclauchlan of Arctic Laboratories Limited provided dedicated technical support in organizing original data sources. Special thanks are extended to Mr. R. Hoos of Dome Petroleum Limited, Calgary, Alberta and Mr. M. Psutka of Esso Resources Canada Limited for providing access to unpublished manuscripts. Information received from D. Lemon of Arctic Sciences Ltd. is also acknowledged. P. Rothwell, I. Stevenson and P. Harper performed the arduous task of preparing the manuscript.

SPECIAL CREDITS

J. White - Technical editing

L.S.C. Thomson - Technical editing

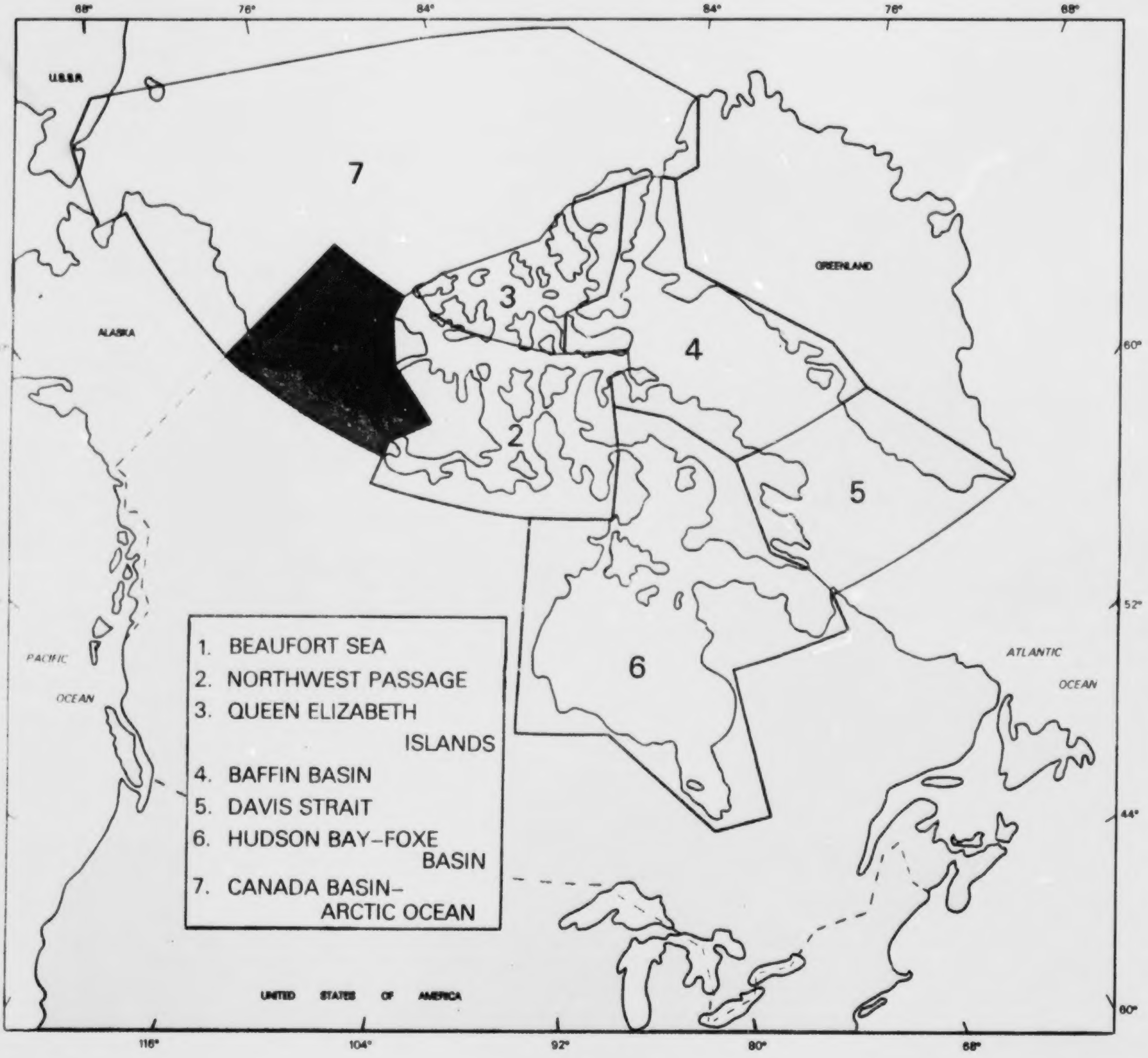
Funds for this work were provided by:

Department of Fisheries and Oceans (DFO);
Department of Indian Affairs and Northern Development (DIAND); and
Dome Petroleum Limited

ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 2

BEAUFORT SEA: CHEMICAL OCEANOGRAPHY


68°
76°
84°
84°
76°
68°
U.S.S.R.
7
ALASKA
3
GREENLAND
4
60°
2
5
52°
PACIFIC
OCEAN
ATLANTIC
OCEAN
6
44°
1. BEAUFORT SEA
2. NORTHWEST PASSAGE
3. QUEEN ELIZABETH ISLANDS
4. BAFFIN BASIN
5. DAVIS STRAIT
6. HUDSON BAY-FOXE BASIN
7. CANADA BASIN-ARCTIC OCEAN
UNITED STATES OF AMERICA
124°
60°
116°
104°
92°
80°
68°

The area covered by this volume is shaded on the map above.

Volume 2: Beaufort Sea: Chemical Oceanography

VOLUME ABSTRACT

This inventory contains a catalogue of chemical oceanographic data sets from the southeastern Beaufort Sea. The inventory includes commonly- measured substances such as dissolved oxygen, major and minor elemental components, nutrients and less frequently measured substances such as trace elements, hydrocarbons and chlorinated hydrocarbons. Turbidity and suspended particulate matter (although not truly chemical quantities) are also included. Data sets are included for sea ice, sea water, Mackenzie River Delta Channel water, sediments, biota and atmosphere. Times and locations of measurements are listed and displayed graphically on a yearly basis. A geographical index and alphabetical references (by data set number) are also included.

Key Words: Beaufort Sea, chemical oceanography, data sets, inventory, dissolved oxygen, nutrients, heavy metals, hydrocarbons, chlorinated hydrocarbons, turbidity, suspended particulate material, sea ice, sediments, biota, atmosphere.

1. INTRODUCTION

Between 1950 and 1982 more than 85 data sets of chemical oceanographic data have been collected in the southeastern Beaufort Sea. The quantity and type of data are distributed irregularly over this time with the bulk of the data collection occurring during two periods - 1952-1954 and 1972-1977. Most of the data sets reported were collected on a limited geographical scale with narrow site-specific objectives. All collected data can be classified as baseline data and are statements of observed distributional patterns of various chemical components. No attempt has yet been made to study the processes that determine the observed distributions of chemical components or to apply process-oriented investigations to case studies.

The objective of this inventory was to compile all available Beaufort Sea chemical oceanographic data sets into a single data bank and to appraise the quality of the data so as to obtain, for the first time, a broader perspective on what is currently known about the chemical oceanography of the southeastern Beaufort Sea and to judge how and to what extent the existing information can be used to interpret possible impacts of Beaufort Sea Development.

The inventory is ongoing. As new data and previously inaccessible data become available, they will be added to a computerized data base maintained at the Institute of Ocean Sciences, Sidney, B.C. Information about new data sets, older data sets which do not appear in this inventory or errors in this inventory, should be submitted in writing to the Institute of Ocean Sciences.

The following sections contain the rationale for organizing the data as it appears in the tables. Wherever possible, formats were adopted that were consistent with those used in the companion inventory for the physical oceanography of the southeastern Beaufort Sea (Cornford et al., 1982).

2. STUDY AREA

The study area (Figure 1) includes that portion of the Beaufort Sea bounded on the North by 75° N latitude, on the west by 141° W longitude, on the east by Banks and Victoria Islands and on the south by the coastline of the Northwest Territories. The area includes the Amundsen Gulf and the southern Prince of Wales Strait which are freely connected to the Beaufort Sea to depths of approximately 325 m. The Mackenzie River Delta Channels are included in the inventory when data occur for these areas in the same data set as offshore data. No river data are included, however, for studies conducted on the river alone.

3. CHEMICAL DATA PRESENTATION

3.1 Types of Data

All chemical data have been grouped according to the environmental medium or compartment in which they are found, as follows:

Medium	**Constituents Included**
Sea Ice	dissolved or occluded
Water Column (Sea Water and River Water)	dissolved constituents particulate constituents
Sediments	surficial sediments sediment cores (interval sampling) interstitial pore waters
Biota (flora and fauna)	seawater dwelling organisms bottom sediment dwelling organisms marine mammals
Atmosphere	gases particulates

The inventory includes all available data of a "chemical nature". This includes commonly measured substances such as dissolved oxygen, major and minor elemental components, nutrients and less frequently measured substances such as trace elements, hydrocarbons and chlorinated hydrocarbons. Turbidity and suspended particulate material are not truly chemical quantities in the classical sense, but are included in the inventory because they are important factors in the interpretation of chemical data and because they are more logically included with the chemical inventory rather than the physical or biological inventories. Chemical data for the freshwater of the Mackenzie River Delta, although these are not oceanographic data, have been included in the inventory because of their importance in understanding the chemical oceanography of the southern Beaufort Sea.

The largest amount and most diverse data are found for water column constituents. Field-based analyses of samples at the time of collection have been rare because most chemical analyses require specialized or sophisticated equipment. Water samples have been frequently processed in the field to the stage where sample preservation is convenient and then returned to the laboratory for analysis. Samples for dissolved oxygen and pH analysis, on the other hand, have been routinely analyzed in the field shortly after collection. Other determinations which can and have been made in the field include low molecular weight hydrocarbons and the reactive nutrients although the latter have also been preserved and returned to the laboratory. Measurements have been made rarely *in situ*, and then only for dissolved oxygen.

The other types of samples: sediments, biota, sea ice and atmosphere, have been obtained in decreasing quantities respectively and all have been analyzed exclusively in the laboratory after preservation for some extended period of time. A summary of the chemical data types included in the inventory is shown in Table 3.1.

3.2 Concentration Units

Several different concentration units have been used over the years to report the chemical results for Beaufort Sea data. In order to eliminate confusion and provide for ease of data comparison between data sets, the International System of Units (SI) has been used wherever possible. Exceptions in the use of SI are classes of compounds comprising assemblages of different molecules such as polycyclic aromatic hydrocarbons and polychlorinated biphenyls. The trend toward worldwide use of SI units as a standard has been established by resolutions of the General Conference of Weights and Measures. In addition, the International Union of Pure and Applied Chemistry (IUPAC) endorses the exclusive use of SI units for chemical quantities. Factors used to convert units found in original reports to SI units are listed in Table 3.2 below.

TABLE 3.1

A Summary of Chemical Data Types Included in the Data Inventory

Chemical Constituent	Water	Ice Cores	Atmosphere	Sediment	Biota
alkalinity	x				
amino acids	x			x	
arsenic	x			x	x
barium	x			x	x
benzo(a)pyrene				x	
beryllium				x	
boron	x			x	
n-butane	x				
cadmium	x			x	x
calcium	x			x	
carbon					
bicarbonate	x				
carbonate	x			x	
carbon dioxide	x				
graphite carbon				x	
$^{13}C/^{12}C$ isotopic ratio	x				
particulate organic carbon	x				
total carbon	x			x	
total inorganic carbon	x				
total organic carbon	x			x	
chloride	x				
chlorins	x				
chlorophyll a	x	x			
chromium	x			x	x
cobalt	x			x	x
copper	x			x	x
dissolved solids					
total	x				
fixed	x				
volatile	x				
dust fall			x		
ethane	x				
ethane, dichlorodiphenyl trichloro- (i.e. DDT)				x	
ethane, 2,2-Bis(p-chlorophenyl)-1, 1-dichloro- (i.e. p,p'-DDD)					x
ethane, 1-(o-chlorophenyl)-1-(p-chlorophenyl) -2,2,2-trichloro-(i.e.o,p'-DDT)					x
ethane, 1,1-Bis-(p-chlorophenyl)-2,2,2-trichloro (i.e. p,p'-DDT)					x
ethene	x				
ethylene, Bis-(chlorophenyl)dichloro-(i.e.DDE)					
ethylene, 2,2-Bis(p-chlorophenyl)-1,1-dichloro-(i.e. p,p'-DDE)					x
fatty acids				x	
fluoride	x				
hardness	x				
hydrocarbons					
n-alkanes	x			x	x
ether extractable	x				
polycyclic aromatic	x			x	x
hydrogen sulphide (g)			x		
iron	x			x	x
lead	x			x	x
lithium	x			x	

TABLE 3.1

A Summary of Chemical Data Types Included in the Data Inventory (continued)

loss on ignition			x		
magnesium	x			x	
manganese	x			x	
mercury					
elemental	x			x	x
methyl					x
methane	x		x		
nickel	x			x	x
nitrogen					
ammonia	x				
Kjeldahl				x	
nitrate	x	x			
nitrite	x	x			
nitrogen dioxide (g)			x		
total dissolved	x				
non-hydrolyzable compounds				x	
oil and grease				x	
oxygen					
biological oxygen demand	x			x	
chemical oxygen demand	x			x	
dissolved	x				
$^{18}O/^{16}O$ isotopic ratio	x				
oxygen uptake rate				x	
ozone			x		
pH	x				
phosphorus					
phosphate	x	x			
total dissolved	x				
plastic					
polychlorinated biphenyls				x	x
potassium	x			x	
propane	x				
propene	x				
rubidium				x	
settleable solids	x				
silicon	x	x			
sodium	x			x	
sterols				x	
strontium	x				
sulphation index			x		
sulphur					
elemental					x
sulphate	x				
sulphide	x				
$^{34}S/^{32}S$ isotopic ratio	x				
sulphur dioxide (g)			x		
suspended particulate matter			x		
total	x				
fixed	x				
volatile	x				
tarballs	x				
turbidity	x				
uranium	x			x	
vanadium				x	x
volatile solids				x	
zinc	x			x	x

TABLE 3.2

CONVERSION FACTORS AS NUMERICAL MULTIPLES OF SI UNITS

Chemical Quantity	to convert from*	to	multiply by
	litres	m^3	1,000
	mg L^{-1}	g m^{-3}	1
ammonia	mg L^{-1} (NH_3)	mmol m^{-3} (NH_3)	58.82
	µg at L^{-1} (NH_3)	mmol m^{-3} (NH_3)	1
arsenic	µg L^{-1}	µmol m^{-3}	13.35
	µg g^{-1}	µmol kg^{-1}	13.35
barium	µg L^{-1}	µmol m^{-3}	7.28
	µg g^{-1}	µmol kg^{-1}	7.28
beryllium	µg L^{-1}	µmol m^{-3}	110.96
	µg g^{-1}	µmol kg^{-1}	110.96
boron	µg L^{-1}	µmol m^{-3}	92.51
	µg g^{-1}	µmol kg^{-1}	92.51
butane	nL (STP) L^{-1}	nmol m^{-3}	44.64
cadmium	µg L^{-1}	µmol m^{-3}	8.90
	µg g^{-1}	µmol kg^{-1}	8.90
calcium	µg L^{-1}	µmol m^{-3}	24.95
carbon	µg g^{-1}	µmol kg^{-1}	83.26
chloride	g L^{-1}	mol m^{-3}	27.82
chromium	µg L^{-1}	µmol m^{-3}	19.23
	µg g^{-1}	µmol kg^{-1}	19.23
cobalt	µg L^{-1}	µmol m^{-3}	16.97
	µg g^{-1}	µmol kg^{-1}	16.97
copper	µg L^{-1}	µmol m^{-3}	15.74
	µg g^{-1}	µmol kg^{-1}	15.74
p,p'-DDD	µg L^{-1}	µmol m^{-3}	3.13
	µg g^{-1}	µmol kg^{-1}	3.13
p,p'-DDE	µg L^{-1}	µmol m^{-3}	3.14
	µg g^{-1}	µmol kg^{-1}	3.14

TABLE 3.2 (continued)

CONVERSION FACTORS AS NUMERICAL MULTIPLES OF SI UNITS

Chemical Quantity	to convert from*	to	multiply by
p,p'-DDT	μg L^{-1}	μmol m^{-3}	2.82
	μg g^{-1}	μmol kg^{-1}	2.82
o,p'-DDT	μg L^{-1}	μmol m^{-3}	2.82
	μg g^{-1}	μmol kg^{-1}	2.82
ethane	nL (STP) L^{-1}	nmol m^{-3}	44.64
ethene	nL (STP) L^{-1}	nmol m^{-3}	44.64
fluoride	μg L^{-1}	μmol m^{-3}	52.26
hardness (as $CaCO_3$)	mg L^{-1}	mol m^{-3}	0.01
iron	μg L^{-1}	μmol m^{-3}	17.91
	% Fe (w/w)	mol kg^{-1}	0.179
lead	μg L^{-1}	μmol m^{-3}	4.83
	μg g^{-1}	μmol kg^{-1}	4.83
lithium	μg L^{-1}	μmol m^{-3}	144.09
	μg g^{-1}	μmol kg^{-1}	144.09
magnesium	mg L^{-1}	mmol m^{-3}	41.14
manganese	μg L^{-1}	μmol m^{-3}	18.20
	% Mn (w/w)	mol kg^{-1}	0.182
mercury	ng L^{-1}	nmol m^{-3}	4.99
	ng g^{-1}	ng kg^{-1}	4.99
methane	nL (STP) L^{-1}	nmol m^{-3}	44.64
nickel	μg L^{-1}	μmol m^{-3}	17.03
	μg g^{-1}	μmol kg^{-1}	17.03
nitrogen	mg L^{-1}	mmol m^{-3}	71.43
	mg kg^{-1}	mmol kg^{-1}	71.43
nitrate	mg L^{-1} (NO_3)	mmol m^{-3} (NO_3-N)	16.13
	μg at L^{-1} (NO_3-N)	mmol m^{-3} (NO_3-N)	1

TABLE 3.2 (continued)

CONVERSION FACTORS AS NUMERICAL MULTIPLES OF SI UNITS

Chemical Quantity	to convert from*	to	multiply by
nitrite	mg L^{-1} (NO$_2$)	mmol m^{-3} (NO$_2$-N)	20.83
	µg at L^{-1} (NO$_2$-n)	mmol m^{-3} (NO$_2$-N)	1
oxygen	mg L^{-1} (O$_2$)	mol m^{-3} (O$_2$)	0.0313
	mL L^{-1} (O$_2$)	mol m^{-3} (O$_2$)	0.0446
phosphate	mg L^{-1} (PO$_4$)	mmol m^{-3} (PO$_4$-P)	32.29
	µg at L^{-1} (PO$_4$-P)	mmol m^{-3} (PO$_4$-P)	1
potassium	mg L^{-1}	mmol m^{-3}	25.58
propane	nL (STP) L^{-1}	nmol m^{-3}	44.64
propene	nL (STP) L^{-1}	nmol m^{-3}	44.64
silicon	mg L^{-1} (Si)	mmol m^{-3} (Si)	35.60
	mg L^{-1} (SiO$_2$)	mmol m^{-3} (Si)	16.64
	µg at L^{-1} (silicate-Si)	mmol m^{-3} (silicate-Si)	1
sodium	g L^{-1}	mol m^{-3}	43.50
strontium	µg L^{-1}	µmol m^{-3}	11.41
sulphur	µg g^{-1}	µmol kg^{-1}	31.19
sulphate	g L^{-1}	mol m^{-3}	10.41
uranium	µg L^{-1}	µmol m^{-3}	4.20
	µg g^{-1}	µmol kg^{-1}	4.20
vanadium	µg g^{-1}	µmol kg^{-1}	19.63
zinc	µg L^{-1}	µmol m^{-3}	15.30
	µg g^{-1}	µmol kg^{-1}	15.30

* **Note:**

In Table 2 conversions for dissolved constituents have been made assuming that the density of sea water is 1.00 i.e. that 1 µg L^{-1} is equivalent to 1 µg kg^{-1}.

4. OUTLINE OF DATA INVENTORY ORGANIZATION

The data are organized into a chronological series of data sets beginning with the year 1950. No chemical data collected before 1950 could be found. Each data set comprises sampling or chemical measurements taken during a single cruise, or during a sampling excursion usually by a single agency. It is assumed, then, that data within a given data set have been collected uniformly and should be internally consistent insofar as sampling methodology is concerned.

Each data set has been assigned an identification number of the form yy-nnnn, where yy = last 2 digits of the year in which data were collected and nnnn = order of identification for that particular data set for that year. The data set number is a unique identifier which applies throughout this series of inventories; for example, any data set identified as 72-0009 is the same no matter where the reference to it is made. In certain cases, data may have been collected over a period of months or years by a common study team with minor or major differences occurring in the types of data collected at each sampling period. When this occurred, letters were used as a suffix to the data set number to distinguish the various sample collections. For example, data set 73-0003 is divided into four parts in the inventory -73-0003A, 73-0003B, 73-0003C and 73-0003D. While there is insufficient reason to regard the four as separate data sets, the subdivision is made to emphasize that different parameters were sampled during the various sampling periods. Gaps may appear in the sequence of data set numbers in this inventory for a particular year, because each data set will not appear in every discipline and geographical area.

This inventory comprises three main tables followed by supporting figures and tables. Table 1 is a chronological list of data sets by data set number (see above). Table 2 is a summary of specific details for actual chemistry data. Table 3 is a listing of times and locations of individual measurements. Where station co-ordinates were not specified in reports, approximate station positions were obtained by measuring plotted station locations on figures located in the report. Measurement locations are plotted in a series of maps in Section 10. There are three standard maps. All are Lambert Conformal Conic projection with standard parallels of 71° N and 73° N. The map encompassing the study area is drawn to a scale of 1:4 680 000. The other two maps are drawn to scales of 1:2 706 000 and 1:1 783 000 respectively; they yield better resolution of data sets containing closely spaced stations. In all cases, the coastlines have been smoothed and small islands removed to avoid clutter. In data sets where stations are very closely spaced a single symbol is used to reduce smudging. In these cases, the number in parentheses to the right of symbol refers to the number of stations at the location represented by the symbol. To maintain uniformity and facilitate comparison, maps for all volumes in the Arctic data compilations have been drawn from common stock.

A listing of the geographical occurrence of data sets is given in the geographic index. Section 11.2 is an index of references ordered by data set number. The first (primary) reference shown for each data set is the an original data report or similar document. The secondary references that follow are other reports or refereed papers based on the primary reference. The listing of secondary references should not be considered an exhaustive literature search. Only those secondary references are included as were found while searching for original data set documents.

4.1 Description of Table Headings

4.1.1 Table 1

Table 1 provides general details of sampling excursions and includes:

(1) identification of the specific region within the study area where sampling was conducted;

(2) the period of time during which the measurements were made;

(3) the ship or agency which collected the data;

(4) a listing of the chemical quantities measured or sampled during the collection period, with those quantities for which data are published and available for inclusion in this inventory in bold type. All entries are not in bold type because

  (a) all samples collected on original cruises may not have been analyzed;

(b) samples may have been analyzed but results may not be available in the public domain or may be untraceable;

(c) samples may be lost or destroyed.

(5) concurrent physical and biological measurements or samples.

4.1.2 Table 2

In Table 2, specific details including analytical results, are given for each quantity measured in each data set. These include:

(1) total number of stations sampled;

(2) total number of samples obtained at all stations;

(3) the number of samples having analytical results greater than the analytical detection limit or greater than 0 when 0 is used to designate the detection limit;

(4) methodology information: details of collection, storage (preservation), and analysis of the sample allowing for judging quality and comparability of data;

(5) the range of reported concentrations. Note that all concentrations are given in Systeme International (SI) units. Conversions between these and previously used units are given in Table 3.1;

(6) the mean and median of the reported concentrations. The median is included because it is not as easily influenced by extreme values as is the mean. It thus represents a better estimate of the middle of a sample population with skewed distribution. Many environmental parameters fall into a log-normal distribution, so the median is probably a better estimate of central tendency. If the number of observations is odd, the median is the middle one of the observations; if the number is even, the median is the average of the two innermost observations. Where a suite of results includes detection limit values, the detection limit is used for computing the mean;

(7) a data quality (confidence) rating based on the rules outlined subsequently (by Section 5.2). The data rating scale uses values from 0 to 4 with 4 indicating data judged to be highest quality, and to have the most versatile potential (refer to Section 5.3).

4.1.3. Table 3

Table 3 provides specific spatial and temporal details for collected samples. These include:

(1) station position (latitude, longitude). For stations where no latitude/longitude are expressed, estimates were made by direct measurement of the plotted station points contained in individual original reports;

(2) station depth;

(3) sampling time (year, month, day and hour in GMT or local time);

(4) number of points (samples in profiles); and

(5) maximum depth sampled.

4.2 Sample use of the inventory

Example 1 Searching for specific-parameter data: e.g., Copper in sea water

Step 1. Consult Table 1 and scan column labelled "Chemical quantities measured or sampled".
Note data sets listing Copper (in bold print) as a measured parameter

Step 2. Consult data set numbers noted in Step 1, Table 2, to obtain specific details of sample history and reported concentrations.

Step 3. Refer to Table 3 for station positions, depths sampled, etc. If areal coverage of stations is of interest, go to Section 6 and consult maps for the data set(s) of interest. Maps are ordered chronologically.

Step 4. Consult the reference list for reports or publications upon which the data set is based.

Example 2.	Searching for data from a specific geographic area: e.g. Copper in McKinley Bay sea water
Step 1.	Consult Geographical Index Note data set numbers
Step 2.	Consult Table 1 for data sets reporting copper in sea water.
Step 3.	Continue as in Example 1.

When additional details concerning data are required, the original data sets must be consulted. Access to these documents may be obtained through Ocean Information Division at the Institute of Ocean Sciences, Sidney, British Columbia.

5. DATA RATING SYSTEM

5.1 Data Quality Criteria

The reported chemical data for the Beaufort Sea have been appraised using a rating system based on five data quality parameters related to methodology:

- A. sample collection;
- B. sample storage/preservation;
- C. sample analysis;
- D. analytical precision;
- E. analytical accuracy.

The five parameters were chosen to quantify the level of confidence in the history of the sample from collection to final analysis and thus represent a measure of the ultimate believability of results. Some general concepts and comments related to these five parameters which indicate how they can be used in the data evaluation are discussed below. A more detailed discussion for specific chemical constituents is given in Section 5.3.

A. Sample Collection

Sampling has traditionally received little attention and has been the weakest link in marine chemical measurements. The method of sampling is crucial, especially for heavy metals or trace hydrocarbons where baseline values are often at or near the detection limit of many analytical techniques. Very specific steps involving sample preparation and collection methodology must be followed with fanatical attention to detail so as to limit the effects of negative and positive contamination. These details are an integral part of the final reported number and must be specified with the results.

B. Sample Storage and Preservation

Once the sample is collected, it must be preserved in such a way that it remains representative of the water body from which it was collected. Storage containers are very important. For the storage of samples for heavy metal analysis, a severe hot acid pretreatment of plastic or Teflon storage bottles must be achieved. Bottles used for storing hydrocarbon samples must be cleaned with solvent and baked to rid the containers of contaminating substances. Procedures specifically applicable to samples of other chemical substances are often necessary. Certain types of samples (e.g. nutrients, chlorophyll a, etc.) which are sensitive to change through biological activity must be analyzed or preserved immediately after collection before such activity begins to alter the sample irreversibly. Failure to do so will result in samples becoming unrepresentative of the original water mass. Acid is frequently used as a preservative for seawater samples for heavy metal analysis. Because the concentration of heavy metals is exceedingly low in sea water, only acids with the highest level of purity can be used, lest the acid addition introduces more metals into the samples than those occurring naturally. Consequently, the purity of all preservatives must be carefully tested before use and must be specified in collection details. Length of time between collection and preservation should be reported exactly.

C. Analysis

Assessing the comparability of analytical results depends on a detailed description of the chemical techniques used. The simple statement found in many reports that "sterile procedures were used" or that "standard methods were used" does not provide enough information to form an opinion about the reliability of the technique employed. This follows from the fact that most chemical laboratories dealing with the analysis of marine samples recognize that most procedures are not routine and that operational changes are often made. Thus, the instrumentation and analytical conditions employed; the quality and age of reagent chemicals; the values of reagent and procedural blanks; and the finesse of the analyst with the technique will be critical to the eventual outcome of the analysis. All these details must be specified.

D. Precision

Precision is essential for defining significant intradata differences. Precision should be determined for each procedure, type of sample and analyst. A description of how precision was measured must be provided. The value given for this parameter with a group of data must truly apply to the specific analysis used to produce those data and not simply be a statement of that which has been achieved or that which can be achieved or expected by others for the same or a similar analytical technique. Precision may be estimated by numerous replicated determinations on a sample. This, however, probably leads to a biased estimate since the analyst is apt to give greater care with samples known to be used to measure variance. A better estimate can be made by blindfold determination of several replicated samples (covering the range of concentration expected for the samples) run randomly throughout the period of analysis.

E. Accuracy

This parameter gives the deviation of an analytical measurement from the true value. It can be estimated by comparing analytical results with the certified values for a standard reference material. Unfortunately, certified reference materials are available for only a limited number of elements or compounds in the various sample matrices or environmental phases. For this reason, accuracy of a method is sometimes estimated by measuring the ability of the method to recover an added standard spike to a sample of similar matrix. This method may fail to provide a reliable estimate of analytical accuracy because the added standard may not have a chemical reactivity which is equivalent to the component in the sample; it may, therefore, respond differently to the chemical steps involved in the determination. While this method of additions cannot prove that an analytical procedure is accurate it can (by demonstrating poor and highly variable recoveries) identify methods that are inherently imprecise. When certified reference materials or standards are used, standardization should be blindfold and occur at random with replication to avoid biased results caused by analysts who pay special attention to standardization samples and who know or are likely to guess the established reference material composition.

Alternatives are available for demonstrating analytical accuracy. Agreement of results determined using different analytical methods employed by different laboratories during intercalibration exercises is one way of increasing confidence in the results. Although reference materials and intercalibrated results may generate confidence in an analytical result, they still can not prove whether the value obtained is an accurate representation of the true value in the environment. Satisfactory agreement among triplicate samples, consistently low blanks and results that make sense (and are consistent with other supporting measurements) will increase confidence.

It is important to distinguish between reference materials and primary standards. The chemical composition of a reference material is empirically derived from the pooled analytical results of several laboratories using different methods and instruments for the assay. Values for reference materials are commonly described as certified values, recommended values or average compositional values. By contrast, primary standard values are "true" values and are independent of the method of analysis. They are inherently more reliable than the values "recommended" for reference materials. A more detailed discussion of "standard" samples can be found in the review by Abbey (1980).

5.2 Definition of the Rating System

All data have been rated by a 5-level rating system, defined as follows.

Rating Score	**Data Quality**
0	data are found to be wrong;
1	data suspect because of ill-defined doubts;
2	insufficient information to assess data; data were not or could not be investigated;
3	data are internally consistent; patterns or trends within data are probably real but comparison with other data sets may be a problem;
4	data are internally consistent and are sufficiently standardized or tied to a reference that comparison with other data at this rating score should be possible. Data may not be accurate in an absolute sense.

This rating system is intended as a guide and not an absolute statement of data quality; it is one of several ways to represent the quality of acquired chemical data. The ideal rating system would use only objective criteria. This is, however, not possible because of the lack of standard analytical procedures in use and because of the significant changes in sample collection and storage techniques and philosophy that have occurred in recent years. Consequently, a certain subjectivity is inherent in the appraisal of data and any given system for objective data quality appraisal is almost doomed to fail as soon as it is chosen since it will rely to some degree on the discretion of the appraiser. This is particularly true in this inventory of retrospective data quality evaluation, because details of sample history are poorly documented and additional clarification cannot be readily obtained.

Ultimately, the quality of the data will reflect the weakest link in the methodology chain (see 5.3 below). Thus, in cases where a deviation from acceptable methodology is considered so serious that the validity of the obtained results is in doubt, a value of 0 is assigned. Consider the collection of seawater samples for heavy metal analyses, for example. Suppose that the samples were stored acidified in unprepared PVC bottles. During the storage period some metals would leach out of the PVC material which forms the walls of the bottle, so introducing positive contamination to the sample. Because all sampling bottles can differ slightly and sometimes greatly in their composition of impurities, the magnitude of the contamination can be random among samples, so that not even comparison of concentration values within the sample set can be justified in a relative sense. The clear lack of confidence in the results together with the strong suspicion that the samples are no longer representative of the original water mass would result in the assignment of a data rating value of 0. It should be noted that the chemical analyses could have been carried out with well-accepted analytical techniques using the finest state-of-the-art instrumentation. In fact, the analyses could be very precise and very accurate based on the analysis of certified reference materials. Unfortunately, despite the excellence of the analysis the results would still be hopelessly wrong. With reference to this inventory of chemical oceanographic data for the Beaufort Sea, cases as obvious as the example above were rare. The most common characteristic of the data sets was an insufficient description of how the results were generated. This led to the assignment of a data rating of 2 to the majority of data sets. It must be stressed, however, that a 2 rating is no better than a 0 rating unless missing information is supplied. If that information no longer exists or in fact never existed, a 0 rating would be warranted.

As already noted, merely stating that a given analytical method was used for a chemical analysis is not sufficent information to reach an opinion about the quality of the data. The quality of analysts varies widely. What can be attained by one analyst can be beyond the abilities of others even when "identical" procedures are employed as demonstrated on more than one occasion during inter-laboratory calibration exercises.

5.3 Significance of the Data Rating Value

The usefulness of the data will depend on the use for which the data are intended, i.e., which question or environmental concern is being considered. The data rating value may be seen to separate groups of data; this can lead to different degrees of understanding environmental processes. At least three levels of data quality are essential to establish significance of data.

Level 1: Identification of Ranges of Values

At this least discriminating level, the data can be assessed for whether or not their reported ranges fall within the general limits expected for coastal or estuarine areas. Gross errors, contamination, or methodology problems would be identified. Even if the ranges of data were physically possible, this level of data scrutiny does not provide any site-specific information, or determine whether the data were representative of a given geographic area, depth or particular time of year when the data were collected. Most data, even data scoring 0, 1 or 2 could be used in such a way.

Level 2: Comparison of Data within the Data Sets

At this level, comparison of profiles or time series within a given data set could be used to determine whether measurements of water or sediment properties at particular stations were significantly different from each other on the basis of precision of measurement. Data with a rating of 3 could be used in this instance provided the precision was sufficient to resolve differences within the range of measured values.

Level 3: Comparison of Data Between Data Sets

This is the minimum rating level required for studies of long-term variability of chemical components. It is also required for studies describing processes that control lateral and vertical distributions of chemical components. Studies involving the detection of subtle shifts in chemical equilibria that may lead to downstream effects (such as perturbations to biological systems or climatological changes) also require data with a high level of confidence and a measure of absolute accuracy. Only data with a rating of 4 could be considered for such applications, but will be inadequate when the samples are not representative of the environmental medium sampled. Full interpretation of chemical oceanographic data is impossible in isolation from knowledge of water column structure. Thus, when concurrent measurements of temperature, salinity and perhaps nutrients and dissolved oxygen or some other related variable are not available to support the chemical data, even 4-rated data will be of limited value. In such cases conclusions will be tentative, being based primarily on inference and conjecture.

5.4 Effect of Positioning on the Data Quality

Accuracy of the station positions is a factor essential to the proper use of the data inventory. This is particularly relevant when knowledge of spatial distributions of water or sediment properties are essential for the understanding of a particular oceanographic phenomenon. Many station positions were obtained using rudimentary techniques such as dead reckoning, or radar range and bearing at distances far from shore; consequently, there may be considerable uncertainty about the geographical location at which samples were obtained. This leads to the dilemma that some chemical data which have received a 4-rating may in fact be of little value in defining important spatial distributions.

Data sets for which no details of positioning or position co-ordinates were given are designated by the term NPG (No Position Given) in the remarks column of Table 2. Entries for these positions appearing in Table 3 were estimated graphically from original report figures and are so indicated.

5.5 Some Important Factors Relevant to the Data Appraisal Process.

The sampling and sample processing techniques used in chemical oceanography are not universally applied to all parameters. Reliable results for certain parameters require the successful application of stringent and highly specialized precautions, while reliable results can be obtained for others using standard routine methodologies. Following is a brief disscussion of factors that one must consider when evaluating data and examples of difficulties that can occur during processing of samples for the most commonly observed parameters in Table 2 (heavy metals, nutrients, dissolved oxygen, hydrocarbons, chlorinated hydrocarbons).

5.5.1 Heavy Metals

A. Sea Water

Many of the pitfalls associated with obtaining reliable heavy metal data in sea water can be illustrated by following the history of a water sample from the time of collection through to the completion of the analysis.

The first step facing the chemical oceanographer is the collection of a representative sample. Although this is probably the most important link in the chain of analytical operations, historically it has been given far less thought and care than it deserves. The sampling device must be constructed of materials that will not contaminate the sample. Thus, all metallic components of commonly-used samplers must be removed or replaced. In addition, samplers must be thoroughly cleaned and kept clean between sampling casts. Teflon is an excellent construction material for samplers because it is usually manufactured with only very low trace metal impurities and can be hot acid cleaned. Samplers made from this material must be carefully cleaned, however, because during the fabrication of Teflon into a chemical apparatus, particles of grit, rust and dirt may become embedded in the surface to act as a source of contamination for long periods of time. The standard Niskin-type water sampler (which has been used extensively in Beaufort Sea sampling) usually contains an internal rubber-coated metal spring or rubber shock cord as part of the closing mechanism. Both are unacceptable since metal impurities can be present in these materials (for example zinc oxide at percent levels). Thus, the use of these samplers for the collection of seawater for zinc analysis is not recommended unless the standard internal spring has been replaced by a Teflon-coated spring or similar contamination-reducing component. Because the sea surface microlayer is enriched with heavy metals, it is advisable to obtain subsurface seawater samples by using samplers such as the Niskin GO-FLO sampler that passes closed through the sea surface layer. Peristaltic pumping systems employing acid-cleaned polyethylene or Teflon tubing have also been used to avoid some of the contamination associated with the surface layer and general handling but these are usually practical only for shallow depths.

The necessity for carefully choosing a sampler is clearly apparent from the results of recent sampler intercomparison studies. Spencer et al. (1982) report that surface water samples taken with a Teflon coated Niskin GO-FLO sampler possessed much higher concentrations of zinc (7-10 fold) and lead (2-3 fold) than those collected directly in Teflon bottles. Bewers and Windom (1982) compared GO-FLO, Niskin and Hydro-Bios samplers. Their results show that the lower concentration seawater samples (Cd, Cu, Ni, Zn, Fe, Mn, Hg, Mo, and V) were collected using GO-FLO bottles in which O-rings and seals were replaced by silicone equivalents; drain cocks were replaced by those made of solid Teflon. Modified Niskin samplers appeared to be only slightly inferior to the modified GO-FLO, but unmodified GO-FLO and Hydro-Bios samplers were generally poorer.

Other precautions that should be observed during the collection of seawater samples for heavy metal analyses include:

(i) use of plastic-coated steel rope, Kevlar rope or stainless steel wire rope in place of the standard iron hydrographic wire (Bewers and Windom, 1982);

(ii) stainless steel weights wrapped in plastic to weigh the hydrographic wire;

(iii) obtaining surface samples from small a boat by heading into the wind against local surface currents and holding sample bottle so that it precedes boat through the water.

Once collected, the sample must be transferred to a storage bottle for some period of time. The storage container must be prepared before use in order that the possibility of the bottle contaminating the sample is reduced. This usually involves a multi-stage and multi-day hot acid-cleaning procedure as described by the Participants in the Lead in Seawater Workshop (1976). Cleaned containers are stored wrapped in polyethylene film and handled only with polyethylene-gloved hands. A preservative is usually added to the samples to inhibit biological activity and the absorption of heavy metals onto the walls of the storage containers. The preservative is most often HCl and must be of sufficient purity to ensure that any trace metal impurities associated with the addition of acid are insignificant relative to the quantity of metal present in the sample.

Most heavy metals samples can be stored in Teflon, polyethylene or quartz when properly cleaned. Mercury should not be stored in polyethylene because mercury vapour readily passes into and through the walls of these containers. The question of whether the sample should be filtered before acidification is controversial. The procedures involved during filtration (particularly on a dirty ship or other field environment where laboratory conditions are not easily reproduced) may often result in greater contamination than would otherwise result from the acidification of unfiltered samples. Sometimes filtration cannot be avoided. On these occasions, filtrations should be carried out (a) under reduced pressure in a closed system apparatus which allows the sample to flow directly from the sample bottle through a pre-cleaned filter into a second pre-cleaned storage bottle or (b) using positive pressure (compressed filtered N_2) in a device that allows direct filtration of a seawater sample from the sampler into a storage bottle. Ideally, the elapsed time between sample collection and analysis should also be minimized to reduce the possibility of sample modification during storage. For instance, prolonged storage may favour the formation of very strong or kinetically-hindered metal complexes with naturally-occurring chelating agents which may, in turn, prevent the formation of an extractable complex with a chelating agent, inhibit a colour forming reaction or impede the reduction of an ion at an electrode. The ultimate result may be that normal analytical methods produce low results or miss a component entirely.

The analytical methodology must also be considered in view of current practices. Any analytical method may be internally consistent yet produce vastly different results from another method, making intercomparison difficult. An example is reported by Brewer and Spencer (1970) where results for the determination of cobalt in sea water obtained from the chelation/extraction/atomic absorption method were five to six fold greater than those obtained by neutron activation of the freeze-dried salts of replicate samples. Even primary reference standards may not

TABLE 5.5.1

BASELINE CONCENTRATIONS OF SELECTED TRACE METALS IN OPEN-OCEAN WATERS REPORTED DURING THE LAST FORTY YEARS

REFERENCE	UNITS	Cd	Cu	Pb	Zn	Ni
COMPILED DATA						
Sverdrup et al; 1942	µmol tonne^{-1}	present	157	1.9	85.0	---
Goldberg, 1965	µmol m^{-1}	0.98	47	0.14	153.0	---
Brewer, 1975	µmol m^{-3}	0.89	7.9	0.14	75.	---
RECENT ORIGINAL DATA						
Zirino and Healy; 1971	µmol m^{-3}	---	---	---	26.0	---
Chester and Stoner, 1974	µmol m^{-3}	0.62	12.6	---	21.0	---
Eaton, 1976	µmol tonne^{-1}	0.53	---	---	---	---
Bender and Gagner, 1976	µmol m^{-3}	<0.90	1.9	---	---	---
Windom and Smith, 1979	µmol tonne^{-1}	---	0.3 - 5.2	---	---	---
Bruland et al., 1978	µmol m^{-3}	---	---	---	0.15 - 9.2	---
Bruland, 1980	µmol tonne^{-1}	0.002 - 1.11	0.54 - 5.3	---	0.08 - 9.1	---
Boyle et al., 1981	µmol tonne^{-1}	<0.01 - 0.08	0.05 - 1.5	---	---	1.03 - 3.5
Danielsson, 1980	µmol tonne^{-1}	0.07 - 0.84	1.3 - 5.5	0.10 - 0.82	---	3.1 - 16.2
Kremling and Petersen, 1978	µmol m^{-3}	0.03 - 0.04	1.6 - 2.7	---	0.76 - 2.0	---
Patterson, 1974	µmol m^{-3}	---	---	0.07	---	---
Heggie, 1982	µmol tonne^{-1}	---	2 - 25	---	---	---

be able to resolve such a discrepancy. Contamination arising during analysis from atmospheric fallout, reagents, sample handling etc. must also be controlled. The recent trend toward performing heavy metal analyses in laminar flow work stations or Clean Rooms is understandable. Even so, it is not unusual to find members of the most advanced and prestigious marine analytical laboratories in the world disagree with each other by factors of 5 or more on the concentrations of metals in standardized seawater samples during international intercalibration exercises, (Sugawara, 1978; Bewers et al, 1981; Olaffson, 1982). Deviations from the standardized or accepted values can exceed ±100% in these intercalibration studies.

The facts presented above emphasize several important points. Steps should always be taken to limit handling and the addition of preservatives to samples. It is also very difficult to form an objective opinion about the quality of a trace metal data set when details such as the ones described above are not given. A true perspective of the heavy metal data as a whole can be achieved by considering the scientists, awareness of problems associated with sampling, storage and sample handling at the time the samples were collected. As the importance of controlling contamination became evident over the years, more effort has been made to systematically eliminate or reduce as many sources as possible. The result has been a continued decrease in the reported values for heavy metals in sea water over the past 40 years (see Table 5.5.1). It is obvious in many cases (and strongly suspected in others) that although most of the heavy metal data obtained for the Beaufort Sea were collected during the past eight years, the techniques used and level of awareness are more characteristic of those used 40 or more years ago. Viewed as a whole, therefore, the quality of heavy metal data for Beaufort Sea sea water is probably very low and the data little more than collections of random numbers. During the past several years, artfully and carefully analyzed samples for heavy metals have generated results conclusively showing that heavy metals are not erratically distributed in the oceans as was the earlier uncomfortable conclusion drawn by many chemical oceanographers based on data dominated by contamination effects. Rather, hoizontal and vertical distributions are now known to vary systematically and can be explained by geological, chemical and physical phenomena. Such evidence of physical and geochemical controls on heavy metal distributions leads to further confidence in metal data and is an aid when evaluating data collections.

B. Sediment and Biological Tissues

In general, the pitfalls encountered in the sampling, storage and analysis of marine sediment samples are fewer than those encountered with seawater samples because the concentrations are commonly about three orders of magnitude higher. Obtaining a representative sample still remains a challenge. Many grab samplers such as the Ponar, screen top Van Veen, Petersen and Kahl box sampler collect substrate together with overlying water. Extreme care must be taken that the overlying water does not wash out the fine material within the surface layer during removal of sediment sample from the sampling device. Before sample collection, it is wise to consider the types of analyses that will be performed on the sample so that a suitable sub-sampling strategy can be devised. Walton (1978), for example, suggests that material from the outer portions of the sample can be used for physical analyses, whereas interior material which is more protected from disturbance or contamination can be used for metal or hydrocarbon analyses. Subsampling for one type of compound should not contaminate the remaining sample before removing a subsequent subsample. Some analysts prefer to analyse a subsample from a homogenized whole sediment; others analyze a given grain size fraction. Because trace metal content usually increases with surface area of particles, intercomparison of many data sets is often tenuous when different size fractions have been analysed. Also, errors may result when sieves made from copper or brass cloth are used to segregate grain sizes. For the analysis of heavy metals in benthic biota it is important that the animals be purged of gut contents before analysis, lest the inorganic sediment present in the gut be included in the estimation of biological metal. For larger animals such as fish and marine mammals specific organs are usually examined due to the vast range of values possible for various body organs.

For both sediment and biological metals, methods involving conditions which favour the formation of covalent halides (e.g., hot sulphuric, perchloric or phosphoric acid in the presence of halide ions) should be examined carefully given the possible quantitative distillation of chromium, arsenic, antimony, tin, selenium, rhenium and osmium and the vaporization of substantial amounts of germanium, molybdenum and mercury under such conditions, particularly when Teflon digestion bombs are not employed in the procedure.

5.5.2 Nutrients

The measured concentration of a given nutrient in a sea water sample is very dependent on analytical methodology. The term "reactive nutrients" is often used to emphasize that results refer to those quantities of nutrient that react under the conditions of specific analytical methods. Phosphate is usually measured as soluble inorganic orthophosphate ions which react with acidified molybdate reagent to yield a phosphomolybdate complex which is then reduced to a highly coloured blue compound. Currently used methods for ammonia determination (such as the indophenol blue method) usually measure NH_3 plus NH_4^+ . Earlier methods included varying amounts of labile organic nitrogen compounds such as trimethylamine and amino acids in the determination. Nitrite is determined as an azo dye formed by the stepwise stoichiometric reaction of nitrite ion with an aromatic amine. Nitrate is determined by the same method as nitrite after passing the sample through a catalytic reductor column to reduce nitrate to nitrite. Since many procedures do not measure nitrite separately, the results for nitrate would more accurately be stated as nitrate plus nitrite. The error involved is usually not significant, however, because nitrite is present only at about 5% of the concentration of nitrate. Silicon is determined as dissolved inorganic silicate based on the formation of a yellow silicomolybdic acid when an acidic sample is treated with molybdate solution. Colloidal silicic acid in sea water usually reacts, but polymeric chains containing three or more silicic acid units react very slowly.

The procedures used for sampling and storage of nutrients in sea water are often modified for specific applications. Some general points are noteworthy:

(a) for best analytical results, samples should be analysed within about one hour of collection;

(b) short-term storage should be in a cool, dark place;

(c) if long-term storage by freezing is necessary, it should be limited to a maximum of two months to limit variance caused by storage (Macdonald and McLaughlin, 1982);

(d) quick-freezing is an effective method for long-term storage of all nutrients except for silicate in estuarine water having a salinity of less than 27×10^{-3}. Caution must also be observed for samples containing silicate in excess of ca 70 mmol m^{-3} or stored for longer than five months. In these cases, data may be successfully recovered provided that thaw times are long enough. The addition of preservatives to samples should be avoided to reduce the chance of contamination and possible interference with the analytical technique. In particular, acidification of phosphate samples is not recommended because of the tendency to favour hydrolysis of combined phosphorus. The addition of chloroform to phosphate samples should also be avoided, because this requires a preliminary sample filtration step which should be avoided if possible. Where water is visibly turbid, PO_4 samples must be filtered. This is particularly important in estuarine samples;

(e) silicate samples must be stored in plastic; phosphate samples keep best in plastic as uptake of phosphate by glass surfaces has been observed; nitrite/nitrate samples can be effectively stored in glass or plastic;

(f) before analysis, silicate samples should be thawed for a minimum of three hours to allow for depolymerization (exact time depends on length of time stored in the frozen state).

Although nutrient elements have been analysed frequently by many laboratories for many years, they cannot be routinely determined with sufficient confidence to resolve differences in nutrient water column structure. This is illustrated by the results of a 20-nation nutrient method intercalibration exercise conducted by ICES (International Council for the Exploration of the Sea, 1977) which showed that only 9% of the total variance of laboratory values was attributable to the "within laboratory" component of variance. Thus, the ability of each laboratory to obtain a precise result was much better than the overall accuracy observed during the intercalibration exercise. Coefficients of variation for the determination of the different nutrients ranged from 4% to 21%. Because the intercalibration was not a blindfold test, these CV's probably overestimate the precision that would be expected under routine laboratory conditions.

5.5.3 Dissolved Oxygen

Almost without exception, the chemical determination of oxygen in sea water is based on the Winkler titration (Carpenter, 1966). Samples must be carefully obtained, fixed and stored all the while limiting or eliminating contact with atmospheric oxygen until after formation of the tri-iodide complex. Numerous systematic errors can occur during the determination of dissolved oxygen by the

Winkler titration method most of which result in an overestimation of oxygen content. Utmost care must be taken in the preparation of iodate solution for standardization by using only the highest quality primary standards.

In situ oxygen probes have also been used to measure dissolved oxygen. Because sensor calibrations often wander or because compensation for changes in temperature and salinity are insufficient or too slow, the sensitivity and accuracy of the in situ probe may be insufficient to resolve dissolved oxygen concentrations in the water column or during surface tows. Oxygen concentrations obtained from in situ probes should be treated as approximate unless compelling evidence is provided to indicate otherwise.

5.5.4 Hydrocarbons

A. Sea Water

In the past, the methodologies used by various researchers for sampling, sample preservation and storage, and cleaning procedures have generally been used on an ad hoc basis each designed and implemented to suit a particular study or application. The best samplers appear to be made of glass or stainless steel which can be effectively solvent cleaned. Contamination during sampling is a serious and commonly encountered problem. Hydrowire can be easily contaminated by oil and grease found in plentiful quantities on the sampling vessel and particulate fallout from combustion of the ship's fuel can also be present. Kevlar or stainless steel cable is preferred for sample casts in conjunction with samplers that pass closed through the sea surface to avoid being contaminated by the natural and anthropogenic hydrocarbon componds which concentrate in slicks at the surface. This is particularly important for ship-based operations where a halo of surface oil can quickly form at a station and extend a considerable distance away from the vessel. Samples should be stored in the dark and in the cool. They should contain added bactericides such as mercuric chloride, sodium azide, chloroform or methylene chloride to limit alteration of the sample through photolysis or bacterial action. Wong et al. (1976) reported that as much as 30% of dissolved PAH was removed from solution by adsorption onto the walls of the storage container during the sample storage period. It is prudent, therefore, to wash sample containers with solvent to recover analyte that would otherwise be lost and lead to an underestimation of the dissolved PAH content of the samples.

B. Sediments and Biota

Hydrocarbons in sediments and biota present fewer contamination problems than seawater samples because concentrations are very much greater than in sea water. Sediments can be successfully collected with grab samplers with the same reservations as outlined above for sampling sediments for heavy metals. No special precautions beyond those already mentioned above need be taken for biological samples.

During the analysis step, however, several pitfalls may occur. Soxhlet extraction of sediments is common. There is some evidence that this may encourage an in-situ contamination through the formation of PAH compounds. Results for low boiling compounds (low molecular weight compounds) should be considered highly unreliable if rotary evaporation techniques have been used to reduce extract volumes.

It is very difficult to compare hydrocarbon results among various studies. Results are often presented for classes of compounds such as aliphatics, polyaromatics, chlorins, fatty acids etc. Column chromatography separations vary from one method to another resulting in the aliphatics determined by one procedure not being equivalent to the aliphatics measured in another. Quantification of specific compounds may be based on the co-injections of standards in a GC or by reference to an internal standard. Total PAH is defined by some authors as the sum of all resolved peaks, a specifically identified assemblage of PAH or the sum of resolved and unresolved PAH. Different methods generate different looking results. For instance, PAH by fluorescence may generate results in units of a standard pure PAH compound such as chrysene while PAH by GC produces results for specific compounds. An example given by Awad (1981) illustrates that it is impossible to obtain the same results applying two different techniques on the same sample even if they differ in just a single step. In the two techniques by Blumer et al. (1971) and Vandermeulen et al. (1974) applied to sediments, the extraction steps were different but the purification steps were the same. The weights of organic extracts and yield of hydrocarbons produced from the first technique, however, were three to seven times higher than those obtained from the second.

Intercalibrations using different analytical techniques for hydrocarbons are usually unsuccessful. An example is the analysis of sediment samples from an area affected by the ARGO MERCHANT oil spill using u.v. fluorescence spectroscopy and gas chromatography. Although the samples used were considered to be identical, the two research groups carrying out the analyses reported no significant correlation of results for values less than 100 μg/g. In addition, Zsolnay (1978) reported no significant correlation between the results obtained by GC and high performance liquid chromatography (u.v. detector) when analysing organism tissues.

Extreme caution must be exercised when comparing concentrations for various hydrocarbon groupings or compounds among the various data sets.

5.5.5 Chlorinated Hydrocarbons

The analysis of chlorinated hydrocarbons such as pesticides and polychlorinated biphenyls presents great difficulty, because concentrations of these substances in sea water are very low (parts per 10^9 or less) leading to the need for large sample sizes (10 litres or more). Problems arise from the handling of these large volumes during the complicated multi-stage analytical procedures employed in the determination of chlorinated hydrocarbons. Procedures are often more art than science where the skill of the analyst becomes paramount to the end result. Contamination of samples can be a serious hazard because of the previous widespread use of chlorinated hydrocarbons in the manufacture of industrial and commerical products. In recent years the manufacture of most chlorinated hydrocarbons and their use in other products has been controlled by legislation, so that the chances of contamination during sampling sea water should be decreasing.

Because chlorinated hydrocarbons are hydrophobic and lipophilic, they tend to concentrate at particle surfaces and in the fatty tissues of organisms. Consequently, their determination in biological tissues and sediments is much simpler than for sea water, although procedures remain complicated and non-routine so that results can be erratic if careful attention is not paid to each step of a procedure.

Despite the medium sampled, exacting details of sampling, storage and analysis must be specified in order that data quality can be assessed. Quantification is very difficult because of the many isomers and interferences normally encountered in chlorinated hydrocarbon assemblages. Demonstrated effective control of low level blanks can increase confidence in the results.

6. REFERENCES

Data set numbers (where applicable) are given in bold type at the end of the reference.

Abbey, S., 1980. Studies in 'Standard Samples' for use in the general analysis of silicate rocks and minerals. Part 6: 1979 Edition of "Useable" Values. Geological Survey of Canada, Paper 80-14, 30 pp.

Adams, W.A., 1975. Light intensity and oil. Beaufort Sea Technical Report No. 29. Beaufort Sea Project, Victoria, B.C., 156 pp. **(75-0028)**

Addison, R.F. and P.R. Brodie, 1973. Occurrence of DDT residues in Beluga whales (Delphinapterus leucas) from the Mackenzie Delta, N.W.T. J. Fish. Res. Bd. Can. 30 (11),1733-1736. **(75-0005)**

Aquatic Environments Ltd., 1977. Tuft Point and adjacent coastal areas fisheries project. Report to Imperial Oil Limited (unpublished manuscript), 152 pp. **(77-0002)**

Awad, H., 1981. Comparative studies on analytical methods for the assessment of petroleum contamination in the marine environment II. Gas chromatographic analysis. Mar. Chem., 10, 417-430.

Beak Consultants Limited, 1978. Heavy Metals Project, Mackenzie Delta and Estuary. A report prepared for Imperial Oil Limited, Calgary, Alberta (unpublished manuscript), 63 pp. + Appendices. **(77-0008)**

Beak Consultants Limited, 1981. Baseline Biological and Chemical Study, Issungnak O-61, Beaufort Sea 1980. A report prepared for Esso Resources Canada Limited Calgary, Alberta (unpublished manuscript), 63 pp. + References. **(80-0006)**

Bender, M.L. and C. Gagner, 1976. Dissolved copper, nickel and cadmium in the Sargasso Sea. J. Mar. Res., 34, 327-339.

Bewers, J.M., J. Dalziel, P.A. Yeats and J.L. Barron, 1981. An intercalibration for trace metals in Seawater. Mar. Chem., 10, 173-193.

Bewers, J.M. and H.L. Windom, 1982. Comparison of sampling devices for trace metal determinations in Sea Water. Mar. Chem., 11, 71-86.

Blumer, M., G. Sauza and J. Sass, 1971. Hydrocarbon pollution of edible shellfish by an oil spill. Mar. Biol., 5, 195-202.

Bornhold, B.D., 1975. Suspended matter in the southern Beaufort Sea. Beaufort Sea Technical Report No. 25b. Beaufort Sea Project, Victoria, B.C., 23 pp. + Appendix. **(75-0009)**

Bowes, G.W. and C.J. Jonkel, 1975. Presence and distribution of polychlorinated biphenyls in marine food chains. J. Fish. Res. Board Can. 32, (11), 2111-2123. **(71-0005)**

Boyle, E.A., S.S. Huested and S.P. Jones, 1981. On the distribution of copper, nickel and cadmium in the surface waters of the North Pacific Ocean. J. Geophys. Res. 86, 8048-8066.

Brewer, P.G. and D.W. Spencer, 1970. Trace Element Intercalibration Study. Reference No. 70-62, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, U.S.A. (unpublished manuscript), 18 pp.

Brewer, P.G., 1975. Minor elements in seawater. (In) Chemical Oceanography J.P. Riley and G. Skirrow (Eds.), Vol 1 (second edition), pp. 415-496. Academic Press, New York.

Brown, D.A., K.A. Thompson and D.J. Thomas, 1979. Canmar: A Histopathological evaluation of organisms from Tingmiark K-91, Ukalerk C-50, Ukalerk 2C-50 and Kenalooak J-94. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Canadian Marine Drilling Limited, Calgary, Alberta (unpublished manuscript), 81 pp. **(79-0008)**

Bruland, K.W., G.A. Knauer and J.H. Martin, 1978. Zinc in north-east Pacific water. Nature 271, 741-743.

Bruland, K.W., 1980. Oceanogahic distributions of cadmium, zinc, nickel and copper in the North Pacific. Earth and Planetary Science Letters, 47, 176-198.

Buist, I.A., W.M. Pistruzak and D.F. Dickins 1981. Dome Petroleum's Oil and Gas Under Sea Ice Study. Proceedings 1981 Oil Spill conference. (Prevention, Behaviour, Control, Clean-up) March 2-5, 1981 Atlanta, U.S.A. Paper 196, pp. 183-189. **(80-0016, secondary reference)**

Bunch, J.N. and R.C. Harland. Biodegradation of crude petroleum by the indigenous microbial flora of the Beaufort Sea. Beaufort Sea Technical Report No. 10. Beaufort Sea Project, Victoria, B.C., 52 pp. **(73-0002, secondary reference)**

Cameron, W.M., 1953. Hydrography and Oceanography of the southeast Beaufort Sea and Amundsen Gulf, Part 2: Hydrographic and oceanographic observations in the Beaufort Sea, 1952. Institute of Oceanography, University of British Columbia, 12 pp + Appendices. **(52-0001)**

Canadian Oceanographic Data Centre, 1963. Cape Parry Area, N.W.T. Data Record Series. No. 5, 1963. Canadian Oceanographic Data Centre, Dept. Energy, Mines and Resources, Ottawa, 44 pp. **(62-0001)**

Canadian Oceanographic Data Centre, 1964. Data Record - Franklin and Darnley Bays, N.W.T. Data Record Series, No. 2, 1964. Canadian Oceanographic Data Centre, Dept. Energy, Mines and Resources, Ottawa, 47 pp. **(63-0001)**

Chester R. and J.H. Stoner, 1974. The distribution of zinc, nickel, manganese, cadmium, copper and iron in some surface waters from the World Ocean. Mar. Chem., 2, 17-32.

Cornford, A.B., D.D. Lemon, D.B. Fissel, H. Melling, B.D. Smiley, R.H. Herlinveaux and R.W. Macdonald. Arctic Data Compilation and Appraisal. Volume 1. Beaufort Sea: Physical Oceanography - Temperature, Salinity, Currents and Water Levels. Can. Data Rep. Hydrogr. Ocean. Sci. 5. 279 pp.

Danielsson, L.G., 1980. Cadmium, cobalt, copper, iron, lead, nickel and zinc in Indian Ocean water. Mar. Chem. 8, 199-215.

Dewis, F.J., A.A. Levinson and P. Bayliss, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada-IV. Boron - salinity - clay mineralogy relationships in modern deltas. Geochim. Cosmochim. Acta 36, 1359-1375.

Eaton, A.D., 1976. Marine geochemistry of cadmium. Mar. Chem., 4, 141-154.

Envirocon Limited, 1977. Isserk Artificial island environmental baseline and monitoring 1977. A report prepared for Imperial Oil Limited, Calgary, Alberta (unpublished manuscript), 125 pp + Tables. **(77-0009)**

Esso Resources Canada Limited, 1981. Chemical analysis of copper, cadmium, zinc, nickel, chromium, mercury and hexane soluble residues in sediment cores from sites in the Southern Beaufort Sea. A data report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Esso Resources Canada Limited, Calgary, Alberta (unpublished manuscript), 12 pp. **(81-0004)**

Esso Resources Canada Limited, 1981. Copper, cadmium, zinc, mercury, chronium, nickel, iron, lead, vanadium, arsenic, beryllium and hexane extractable residue content of sediments from Alerk and West Atkinson locations. A data report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Esso Resources Canada Limited, Calgary, Alberta (unpublished data), 6 pp. **(81-0010)**

Erickson, P.E., 1981. Issungnak Oceanographic Survey. A progress report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Esso Resources Canada Limited, August 31, 1981 (unpublished manuscript), 44 pp. **(81-0003)**

Erickson, P.E., and R. Pett, 1981. Concentration of suspended particulate material and dissolved oxygen in Tuktoyaktuk Harbour near dredging conducted by the Government of the Northwest Territories June 18 - June 6, 1981. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 71 pp. **(81-0013)**

Fraker, M.A., C.D. Gordon, J.W. McDonald, J.K.B. Ford and G. Chambers, 1979. White whale (Delphinapterus leucas) distribution and abundance and the relationship to physical and chemical characteristics of the Mackenzie Estuary. Can. Fish. Mar. Serv. Tech. Rep. 863, 56 pp. **(77-0001)**

Goldberg, E.D., 1965. Minor elements in sea water. (In) Chemical Oceanography. J.P. Riley and G. Skirrow (Eds). Vol 1 (first edition), pp. 163-196. Academic Press, London.

Grainger, E.J., 1974a. Nutrients in the Southern Beaufort Sea. (In) The Coast and Shelf of the Beaufort Sea. J.C. Reed and J.E. Sater (Eds). Arctic Institute of North America, pp. 589-606. **(73-0002, secondary reference)**

Grainger, E.H., 1974b. Baseline study of the marine environment inthe area of the Mackenzie Delta. (In) Marine Ecology of the Mackenzie Delta and Tuktoyaktuk Peninsula Region, Part IIIa. pp. 101-173. Task force on Northern Oil Development Report No. 74-22. **(73-0002, secondary reference)**

Grainger, E.H., 1975. Biological Productivity of the Southern Beaufort Sea: The Physical-Chemical Environment and the Plankton. Beaufort Sea Technical Report No. 12A. Beaufort Sea Project, Victoria, B.C., 82 pp. **(73-0002, secondary reference)**

Grainger, E.H. and J.E. Lovrity, 1975. Physical and chemical oceanographic data from the Beaufort Sea, 1960 to 1975. Canada Dept. of the Environment, Fisheries and Marine Service Research and Development Directorate, Tech. Report No. 590, 52 pp. **(73-0002, secondary reference)**

Grainger, E.H., J.E. Lovrity and M.S. Evans, 1977. Biological observations in the Eskimo Lakes, Arctic Canada. Physical, nutrient and primary production data 1961-1976. Environment Canada, Fisheries and Marine Service, Technical Report No. 685, 108 pp. **(71-0004)**

Griffiths, W., P. Craig, G. Walder and G. Mann, 1975. Fisheries investigations in a coastal region of the Beaufort Sea (Nunaluk Lagoon, Yukon Territory). (In) Arctic Gas, Biological Report Series. P.C. Craig (Ed.). Volume 34, Chapter II. Canadian Arctic Gas Study, Alaskan Arctic Gas Study Company. **(74-0011)**

Heggie, D.T., 1982. Copper in surface waters of the Bring Sea. Geochim. Cosmochim Acta 16, 1301-1306.

Hitchon, B. and H.R. Krouse, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada -- III. Stable isotopes of oxygen, carbon and sulphur. Geochim. Cosmochim. Acta 36, 1337-1357. **(69-0002, secondary reference)**

Humphrey, B., 1980. Dome Canmar oil under ice experiment. A report prepared by Arctic Laboratories Limited, Inuvik N.W.T. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 105 pp. **(80-0016)**

Institute of Ocean Sciences, 1981. Ocean Chemistry Division, original data sheets. **(74-0008, secondary reference)**

International Council for the Exploration of the Sea (ICES), 1977. The international intercalibration exercise for nutrient methods. Koroleff, K., K.H. Palmork, O. Ulltang and J.M. Gieskes (Eds.). ICES, Charlottenlund Slot, DK-2920, Charlottenlund, Denmark, 44 pp.

Kremling, K., and H. Petersen, 1978. The distribution of Mn, Fe, Zn, Cd and Cu in Baltic Sea Water; a study on the basis of one anchor station. Mar. Chem. 6, 155-170.

Kendel, R.E., R.A.C. Johnston, J. Lobsiger and M.D. Kozak, 1975. Fishes of the Yukon Coast. Beaufort Sea Technical Report No. 6. Beaufort Sea project, Victoria, B.C., 114 pp. **(74-0021)**

Kusunoki, K., 1962. Hydrography of the Arctic Ocean with special reference to the Beaufort Sea. Contribution from the Institute of Low Temperature Science, Series A, No. 17. Institute of Low Temperature Science, Hokkaido Univeristy, Sapporo, Japan, 75 pp. **(59-0001)**

Kusunoki, K., J. Muguruma and K. Higuchi, 1962. Oceanographic Observations at Fletcher's Ice Island (T-3) in the Arctic Ocean in 1959-1960. Research Paper No. 22, Arctic Institute of North America, 44 pp. **(59-0001, secondary reference)**

Macdonald, R.W., 1976. Distribution of Low Molecular Weight Hydrocarbons in Southern Beaufort Sea. Env. Sci. Tech. 10(13), 1241-1246. **(74-0008, secondary reference)**

Macdonald, R.W., M.E. McFarland, S.J. de Mora, D.M. Macdonald and W.K. Johnson, 1978. Oceanographic Data Report, Amundsen Gulf, August to September, 1977. Pacific Marine Science Report 78-10. Institute of Ocean Sciences, Patricia Bay, Sidney, B.C., 92 pp. **(77-0003)**

Macdonald, R.W. and F.A. McLaughlin, 1982. The effect of storage by freezing on dissolved inorganic phosphate, nitrate and reactive silicate for samples from coastal and estuarine waters. Water Research 16, 95-104.

McDonald, J.W. and G.M. Cambers, 1977. Environmental assessment of construction and construction support activities on the physical-chemical oceanography of the Mackenzie Estuary related to the proposed ten year Beaufort Sea offshore exploration program, Volume 2, Part 3, 38 pp. + References. (In) Slaney, F.F. & Company Limited, 1977. Environmental Assessment of construction and construction support activities related to the proposed ten year Beaufort Sea offshore exploration program, Volume 2, 255 pp + References. **(76-0004, secondary reference)**

Mann, G.J., 1975. Winter fisheries survey across the Mackenzie Delta. (In) Arctic Gas, Biological Report Series. P.C. Craig (Ed.). Volume 34, Chapter III. Canadian Arctic Gas Study Limited, Alaskan Arctic Gas Study Company, 53 pp. **(74-0022).**

Matsumoto, E., and C.S. Wong, 1977. The Distribution of Suspended Particles in the Beaufort Sea. J. Oc. Soc. Jap. 33, 227-232. **(74-0008, secondary reference)**

Naidu, A.S. and D.W. Hood, 1972. Chemical composition of bottom sediments of the Beaufort Sea, Arctic Ocean. Proceedings Twenty-Fourth International Geological Congress, Montreal. Section 10: 307-317. **(72-0002)**

Naidu, A.S., 1974. Sedimentation in the Beaufort Sea: A Synthesis. (In) Marine Geology and Oceanography of the Arctic Seas. Y. Herman (Ed) Springer-Verlag, New York, pp. 173-190. **(72-0002, secondary reference)**

Naidu, A.S., and T.C. Mowalt, 1974. Clay Mineralogy and geochemistry of continental shelf sediments of the Beaufort Sea. (In) The Coast and Shelf of the Beaufort Sea. J.C. Reed and J.E. Sater (Eds). Arctic Institute of North America, pp. 493-510. (72-0002, secondary reference)

National Research Council of Canada, 1972. Supporting field data sheets, sampling locations and annotated bibliography for: Reeder, S.W., B. Hitchon and A.A. Levinson, 1972. Hydrogeochemistry of the surface waters of the Mackenzie Riverdrainage basin, Canada -- I. Factors controlling inorganic composition. Geochim. Cosmochim. Acta 36, 825-865. Depository of Unpublished Data National Science Library, National Research Council of Canada, Ottawa. **(69-0002, secondary reference)**

NORCOR Engineering and Research Ltd., 1975. The interaction of crude oil with Arctic Sea ice. Beaufort Sea Technical Report No. 27. Beaufort Sea Project, Victoria, B.C., 145 pp. + Tables. **(75-0026)**

Olafsson, J., 1982. An international intercalibration for mercury in sea water. Mar. Chem. 11, 129-142.

Participants of the Lead in Seawater Workshop, 1976. Comparison determinations of lead by investigators analyzing individual samples of sea water in both their home laboratory and in an isotope dilution standardization laboratory. Mar. Chem., 4, 389-392.

Patterson, C., 1974. Lead in Sea Water. Science, 183, 553-554.

Patterson, C.D. Settle and B. Glover, 1976. Analysis of lead in polluted coastal sea water. Mar. Chem., 4, 305-319.

Peake, E., B.L. Baker and G.W. Hodgson, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada -- II. The contribution of amino acids, hydrocarbons and chlorins to the Beaufort Sea by the Mackenzie River system. Geochim. Cosmochim. Acta 36, 867-883. **(69-0002, secondary reference)**

Peake, E., M. Strosher, B.L. Baker, R. Gossen, R.G. McGrossan, C.J. Yorath and G.W. Hodgson, 1972. The potential of Arctic sediments: Hydrocarbons and possible precursors in Beaufort Sea sediments. Proceedings: Twenty-Fourth International Geological Congress, Montreal. Section 5: 28-37. **(70-0008)**

Percy, R., 1975. Fishes of the outer Mackenzie Delta. Beaufort Sea Technical report No. 8, Beaufort Sea Project, Victoria, B.C., 114 pp. **(74-0020)**

Pelletier, B.R., 1975. Sediment dispersal in the Southern Beaufort Sea. Beaufort Sea Technical Report No. 25a. Beaufort Sea Project, Victoria, B.C. 80 pp. **(75-0027)**

Pett, R., J. Acreman and G. Vickers, 1981. The ice flora and plankton near Issungnak artificial island in the Southern Beaufort Sea. A progress report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Arctic Biological Station, Fisheries and Oceans, Ste. Anne de Bellevue, Quebec (unpublished manuscript), 44 pp. **(81-0015)**

Reeder, S.W., B. Hitchon and A.A. Levinson, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada --I. Factors controlling inorganic composition. Geochim. Cosmochim. Acta 36, 825-865. **(69-0002)**

Slaney, F.F. & Company Limited, 1973a. 1972 Environmental Field Program, Taglu-Richards Island, Mackenzie Delta. Interim Report part 4: Aquatic Systems. Report to Imperial Oil Limited, January 1973. (unpublished manuscript), 18 pp. + Appendices. **(72-0006)**

Slaney, F.F. & Company Limited, 1973b. 1972 Environmental Field Program, Taglu-Richards Island, Mackenzie Delta. Interim Report Part 6: Pollution Testing. Report to Imperial Oil Limited, January 1973. (unpublished manuscript). 4 pp. + Appendices. **(72-0003)**

Slaney, F.F. & Company Limited, 1973c. Environmental Impact Assessment, Immerk artificial island construction, Vol. II Environmental Studies. Report to Imperial Oil Limited, January 1973 (unpublished manuscript), 55 pp. + Tables. **(72-0007)**

Slaney, F.F. & Company Limited, 1974a. 1972 - 1974. Environmental Program - Mackenzie Delta N.W.T. Volume 7: Environmental Quality. Report to Imperial Oil, Gulf Oil Canada Limited, Shell Canada Limited, Canadian Arctic Gas Study Limited, May 1974. **(72-0003, secondary reference)**

Slaney, F.F. & Company Limited, 1974b. Winter benthic and oceanographic surveys, offshore Mackenzie Delta, N.W.T. Report to Imperial Oil Limited, June 1974. (unpublished manuscript), 25 pp. + Appendices. **(74-0001)**

Slaney, F.F. & Company Limited, 1974c. Summer environmental program, Mackenzie River Estuary. Volume I, Aquatic Studies. Report to Imperial Oil Limited, March 1975 (unpublished manuscript), 156 pp. + Appendices. **(74-0003)**

Slaney, F.F. & Company Limited, 1974d. Environmental Program, Mackenzie Delta. N.W.T. Winter Study Supplement. Report to Imperial oil Limited, Gulf Canada Limited, Shell Canada Limited, Canadian Arctic Gas Study Limited, May 1974 (unpublished manuscript), 74 pp. + References. **(74-0009)**

Slaney, F.F. & Company Limited, 1974e. Winter Environmental Program: Unark, Pelly and Gary Artificial Island Sites, East Mackenzie Bay, N.W.T. A report to Sunoco E & P, Limited, May 1974 (unpublished manuscript), 34 pp. + References + Appendix. **(74-0019)**

Slaney, F.F. & Company Limited, 1976a. A summer survey of the physical oceanography and water chemistry of the Mackenzie Estuary. N.W.T. 1975. Report to Imperial Oil Limited (unpublished manuscript), 146 pp. + Appendices. **(75-0009)**

Slaney, F.F. & Company Limited, 1976b. 1975 Hydrology Survey; Taglu-Richards Island, N.W.T. Report to Beaufort Gas Project, Imperial Oil Ltd., (unpublished manuscript), 51 pp. + References + Appendices. **(75-0011)**

Slaney, F.F. & Company Limited. 1977a. Biophysical Data Appendix. Artificial Island Sites. Report to Imperial Oil Limited (unpublished manuscript - tables only), 80 pp. **(76-0003)**

Slaney, F.F. & Company Limted, 1977b.. 1976 Summer Aquatic studies: Arnak L-30 Artificial Island Site and Tuft Point Borrow Site. Report Imperial Oil Limited (unpublished manuscript), 117 pp. + Appendices. **(76-0004)**

Slaney, F.F. & Company Limited, 1977c. Summer heavy metal studies: Netserk F-40 Artificial Islands. A draft report to Imperial Oil Limited (unpublished manuscript), 42 pp. + Tables. **(76-0006)**

Smith, T.G. and F.A.J. Armstrong, 1975. Mercury in seals, terrestrial carnivores, and principal food items of the Inuit, from Holman, N.W.T. J. Fish. Res. Bd. Can. 32 (6), 795-801. **(72-0014)**

Smith, T.G. and F.A.J. Armstrong, 1978. Mercury and selenium in ringed and bearded seal tissues from Arctic Canada. Arctic 31 (2), 75-84. **(78-0017)**

Spencer, M.J., P.R. Betzer and S.R. Piotrowicz, 1982. Concentrations of cadmium, copper, lead and zinc in surface waters of the Northwest Atlantic Ocean. A comparison of GO-FLO and teflon water samplers. Mar. Chem. 11, 403-410.

Stich, H.F. and B.P. Dunn, 1980. The carcinogenic load of the environment: benzo(a)pyrene in the sediments of Arctic Waters. Arctic 33 (4), 807-814. **(77-0006)**

Sugawara, K., 1978. Interlaboratory comparison of the determination of mercury and cadmium in sea and fresh waters. Deep-Sea Research, 25, 323-332.

Sverdrup, H.U., M.W. Johnson and R.H. Fleming, 1942. The Oceans: Their Physics, Chemistry and General Biology. Prentice Hall, New Jersey p. 220.

Thomas, D.J., 1977a. Copper, zinc, cadmium, lead, chromium, mercury and iron in sediment, sea water and zoobenthos at selected Dome drillsites in the Beaufort Sea - Summer 1977. A report prepared by Seakem Oceanography Ltd, Sidney, B.C. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 114 pp. **(77-0007)**

Thomas, D.J., 1977b. Dissolved and sediment concentrations of cadmium, chromium, copper, lead, zinc, nickel, iron and mercury at the Dome Tingmiark K-91 drillsite. A report prepared for Dome Petroleum Limited, Calgary, Alberta by Seakem Oceanography Ltd., Sidney, B.C. (unpublished manuscript), 14 pp. **(77-0010)**

Thomas, D.J., 1978a. Tingmiark K-91 and Kopanoar D-14. A chemical study one year after the occurrence of shallow water flow, July 1978. A report prepared by Seakem Oceanography Ltd., Sidney, B.C. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 126 pp. **(78-0002)**

Thomas, D.J., 1978b. A baseline chemical survey at Tarsiut A-25, July 1978. A report prepared by Seakem Oceanography Ltd., Sidney, B.C. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 35 pp. **(78-0018)**

Thomas, D.J., 1978c. Kaglulik A-75. A chemical study during shallow water flow, July 1978. A report prepared by Seakem Oceanography Ltd., Sidney, B.C. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 31 pp. **(78-0019)**

Thomas, D.J., 1979a. Canmar-Summer's Harbour coal dusting operations, 1979: Environmental Monitoring. A report prepared by Arctic Laboratories Limited, Inuvik N.W.T. for Canadian Marine Drilling Limited, Calgary, Alberta (unpublished manuscript), 33 pp. **(79-0005)**

Thomas, D.J., 1979b. Dome Petroleum - McKinley Bay Dredging Programme Phase I: Geochemical baseline survey and environmental monitoring during 1979 operations. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 80 pp. **(79-0006)**

Thomas, D.J., 1979c. A baseline chemical survey at Kilannak A-77, July 1979. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 44 pp. **(79-0007)**

Thomas, D.J., 1979d. The effect of discharge drilling fluid waste on primary productivity at Nerlerk M-98. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Canadian Marine Drilling Limited, Calgary, Alberta (unpublished manuscript), 31 pp. **(79-0009)**

Thomas, D.J., 1980. Dome Petroleum Limited: Water quality measurements and dredge spoil monitoring at McKinley Bay, N.W.T., 1980. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 41 pp. **(80-0003)**

Thomas, D.J., W.A. Heath, K.A. Thompson and J.M. Koleba, 1981. An oceanographic study of Tuktoyaktuk Harbour, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript). 244 pp. **(80-0004)**

Thomas, D.J., 1981a. Environmental monitoring at McKinley Bay, N.W.T. relating to Ocean Dumping control Act Permit 4443-001194. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 15 pp. **(81-0011)**

Thomas, D.J., 1981b. Extractable hydrocarbons in the surficial sediments of the moorage basin at McKinley Bay, Northwest Territories, 1981. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 14 pp. **(81-0012)**

Thomas, D.J., 1981c. Hexane extractable compounds in McKinley Bay Sediments, N.W.T. A data report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Environmental Protection Service, Environment Canada Yellowknife, N.W.T. (unpublished data), 4 pp. **(81-0014)**

Thomas, D.J., K. Thompson, G. Roe and W. Heath, 1981. A chemical and biological assessment of the environmental impact of the 1974/5 experimental oil spills at Balaena Bay, N.W.T. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Gulf Canada Resources Inc., Calgary, Alberta, 131 pp. (In) Return to Balaena Bay, D.F. Dickins Engineering, Vancouver, B.C., 171 pp. + Appendix. **(81-0005)**

Thomas, D.J., W.A. Heath, J.M. Koleba, B.M. Perry and A.G. Etheir, 1982. A study of the benthos and sediment chemistry at Tarsiut N-44 Artificial Island and South Tarsiut Borrow Area - 1980 and 1981. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Dome Petroleum Limited, Calgary Alberta (unpublished manuscript), 160 pp. **(81-0018)**

U.S. Navy Hydrographic Office, 1954. Oceanographic observations, U.S.S. Burton Island, 1950 - 1953. H.O. Pub. 618-C, U.S. Navy Hydrographic Office, Washington, D.C. (unpublished manuscript) 309 pp. **(50-0001)**

U.S. Navy Hydrographic Office, 1954. Oceanographic survey results, Beaufort Sea area, summer 1954. U.S.S. Burton Island (AGB-1) and USCGC Northwind (WAGB-282). H.O. 15791, January 1954. U.S. Navy Hydrographic Office, Washington, D.C. (unpublished manuscript), 102 pp. computer output. **(54-0002)**

Vandermeulen, J.H., P.D. Keizer and T.P. Ahren, 1976. Compositional changes in beach sediment-bound Arrow Bunker C: 1970-1976. ICES, Fisheries Improvements Committee, C.M./E.S.I., pp. 1-6.

Walton, A. (Editor), 1978. Methods for sampling and analysis of marine sediments and dredged materials. Ocean Dumping Report No. 1, Department of Fisheries and Oceans, Ottawa., 74 pp.

Windom, H.L. and R.G. Smith, Jr., 1979. Copper concentrations in surface waters off the southeastern Atlantic coast, U.S.A. Mar. Chem., 1, 157-163.

Wong, C.S., D. Macdonald and R.D. Bellegay, 1974. Distribution of tar and other particulate pollutants along the Beaufort Sea coast. Interim report of Beaufort Sea Project Study C1, Beaufort Sea Project, Victoria, B.C., 69 pp. **(74-0008, secondary reference)**

Wong, C.S., W.J. Cretney, R.W. Macdonald and P.Erickson, 1974. Baseline information on chemical oceanography and petroleum based hydrocarbons in the southern Beaufort Sea. Interim Report Beaufort Sea Project Study C3. Beaufort Sea Project, Victoria, B.C., 51 pp. **(74-0008, secondary reference)**

Wong, C.S., D. Macdonald and W.J. Cretney, 1976. Tar and particulate pollutants on the Beaufort Sea coast. Beaufort Sea Technical Report No. 13. Beaufort Sea Project, Victoria, B.C., 96 pp. **(74-0008, secondary reference)**

Wong, C.S., W.J. Cretney, R.W. Macdonald and P. Christensen, 1976. Hydrocarbon levels in the marine environment of the Southern Beaufort Sea. Beaufort Sea Technical Report No. 38. Beaufort Sea Project, Institute of Ocean Sciences, Sidney, B.C., 113 p. **(74-0008, secondary reference)**

Wong, C.S., R.W. Macdonald, R.D. Bellegay and P. Erickson, 1981. Baseline data on chemical oceanography in the southern Beaufort Sea, 1974-5. Beaufort Sea Technical Report No. 14. Beaufort Sea Project, Institute of Ocean Sciences, Sidney, B.C., 51 pp. **(74-0008)**

Zirino, A.R. and M.L. Healy, 1971. Voltammetric measurement of zinc in the northeastern tropical Pacific Ocean. Limnol. Oceanogr., 16, 773-778.

Zsolnay, A., 1978. Lack of correlation between gas-liquid chromatograph and UV absorption indicators of petroleum pollution in organisms. Water, Air and Soil Pollution, 9, 45-51.

7. DATA INVENTORY TABLE 1.

NOTE: Entries appearing in column 5 in bolded type indicate those chemical quantities reported in Table 2. Entries in regular type refer to quantities reported to have been sampled but for which no data were provided by original authors.

LIST OF ABBREVIATIONS USED IN TABLES 1 and 2

Alk_t - total alkalinity
AAS - atomic absorption spectrophotometry (this general term used when it is not known whether instrument was used in flame (FAAS) or graphite furnace (GFAAS) mode)

AgDDC - silver diethyldithiocarbamate
APDC - ammonium pyrrolidine dithiocarbamate
APHA - American Public Health Association
AS - Absorption Spectroscopy
As - Arsenic (AW= 74.92)
ASTM - American Society for Testing and Materials
AuA - auto analyzer

B - boron (AW = 10.81)
BOD - biological oxygen demand
BT - bathythermograph

C - carbon (AW = 12.01) or conductivity when located in concurrent physical meausrements column
CH_4 - methane
C_2H_6 - ethane
C_2H_4 - ethene
C_3H_8 - propane
C_3H_6 - propene
C_4H_{10} - butane
CO_2 - carbon dioxide
CO_3 - carbonate
cc - column chromatography
Ca - calcium (AW = 40.08)
Ca-H - calcium hardness
Cd - cadmium (AW = 112.40)

Chl. a - chlorophyll a
Cl - chlorine (AW = 35.45)
Co - cobalt
COD - chemical oxygen demand
Cr - chromium (AW = 52.00)
CRAAS - carbon rod atomic absorption spectrophotometry
CTD - conductivity-temperature-depth
CVAAS - cold vapour atomic absorption spectrophotometry
Cu - copper (AW = 63.55)

DWB - dry weight basis
HCB - Hexachlorobenzene (F.W. = 284.78)
p,p'-DDD - 2,2-Bis(p-chlorophenyl)-1,1-dichloroethane (F.W. = 320)
p,p'-DDE - 2,2-Bis (p-chlorophenyl)-1,1-dichloroethylene (F.W. = 318)
o,p'-DDT - 1-(o-chlorophenyl)-1-(p-chlorophenyl)-2,2,2-trichloroethane (F.W. = 318)
p,p'-DDT - 1,1-Bis-(p-chlorophenyl)-2,2,2-trichloroethane (F.W. = 354.5)
DOC - dissolved organic carbon

ECGC - electron capture gas chromatography
EDTA - ethylene diamine tetra acetate

FAAS - flame atomic absorption spectrophotometry
Fe - iron (AW = 55.85)
F - fluorine (AW = 19.00)
F-DS - fixed dissolved solids
FR - filterable residue
FS - fluorescence spectroscopy
F-SPM - fixed suspended particulate material

GC - Gas chromatography
GCMS - gas chromatography - mass spectrometry
GFAAS - Graphite furnace atomic absorption spectrophotometry
GLC - gas liquid chromatography
GC (FID) - gas chromatography (flame ionization detector)
GrC - graphite carbon

H - hardness
H_2S - hydrogen sulphide
HC - hydrocarbons
Hg - mercury (AW = 200.59)
HCO_3 - bicarbonate
HF - hydrofluoric acid
HNO_3 - nitric acid
H_2SO_4 - sulphuric acid
$HClO_4$ - perchloric acid
HPLC - high performance liquid chromatography
HEC - hexane extractable compounds

IEC - ion exchange chromatography
IR - infra-red spectroscopy
K - potassium (AW = 39.10)

Li - lithium (AW = 6.94)
LMWHC - low molecular weight hydrocarbons
LOI - loss on ignition

Mg - magnesium (AW = 24.31)
Mn - manganese (AW = 54.94)
MS - mass spectrometry
MIBK - methyl isobutyl ketone

N - nitrogen (AW = 14.01)
NO_2 - nitrite nitrogen
$NO_2(g)$ - nitrogen dioxide gas
NO_3 - nitrate nitrogen (AW = 14.01)
Na - sodium (AW = 22.99)
NaDDC - sodium diethyldithiocarbamate
NBS - National Bureau of Standards (U.S.A.)
Ni - nickel (AW = 58.71)
NPG - no position given
NS - not specified

O_2 - dissolved oxygen
OC - organic carbon
O & G - oil and grease
ORP - oxygen reduction potential
Org. N - organic nitrogen
Org. PO_4 - organic phosphate
OUR - oxygen uptake rate

POC - particulate organic carbon
PE - polyethylene
PHAEO - phaeopigments
PAH - polyaromatic hydrocarbons
PO_4 - phosphate - phosphorus
Pb - lead (AW = 207.19)
^{210}Pb - lead (AW = 210)
pH - -log H^+
PVC - polyvinyl chloride
PO_4 - total phosphate
P - total phosphorus

RB - Rubidium (AW = 85.47)

S - sulphur (AW = 32.06) or salinity when located in concurrent physical measurements column.
S & P - Strickland and Parsons
SF - spectrofluorometry
SFC - surface
S/S - stainless steel
SO_2 - sulphur dioxide
SO_4 - sulphate
Si - silicate-silicon ($Si(OH)_4$)
SI - sulphation index
SiO_2 - silica
SM - settleable material
SPM - suspended particulate matter
SR - strontium (AW = 87.62)

T - temperature
TAc - total acidity as $CaCO_3$
TC - total carbon
TDN - total dissolved nitrogen
TDP - total dissolved phosphate
T-DS - total dissolved solids
TH - total hardness
TOC - total organic carbon
TIC - total inorganic carbon
TKN - total Kjeldahl nitrogen
TLC - thin layer chromatography
TR - total residue
T-SPM - total suspended particulate material

U - uranium (AW = 238.03)
UV - ultraviolet

V - vanadium (AW = 50.94)
V-DS - volatile dissolved solids
VS - visible spectroscopy
V-SPM - volatile suspended particulate material

WT - Winkler titration
WWB - wet weight basis

XRF - X-ray fluorescence

YSI - Yellow Springs instrument

Zn - zinc (AW = 65.37)

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
50-0001	U.S.S. BURTON ISLAND	Aug. 19-23	Continental Slope	Water Column: O_2 Bottom Sediment: 68 samples collected by NEL snapper, Phleger, Emergy-Dietz Corer, dredge	T, S, BT, currents transparency	Secchi depth, plankton hauls	
51-0001	U.S.S. BURTON ISLAND	Sept. 14-21	Continental Slope, Canada Basin	Water Column: O_2 Bottom Sediment: 81 samples collected	T, S, BT, currents	Secchi depth, plankton hauls benthic organisms, mid-depth fish hauls	
52-0001	C.G.M.V. CANCOLIM II	July 25-	Tuktoyaktuk Continental Shelf	Water Column: O_2	T, S		
52-0002	U.S.S. BURTON ISLAND	Sept. 2-10	Continental Slope	Water Column: O_2, PO_4, Si Bottom Sediment: 26 samples taken (snapper-Phleger)	T, S, BT, currents	Secchi depth, plankton hauls	

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
53-0001	U.S.S. BURTON ISLAND	Aug. 8-11, 25	Amundsen Gulf	Water Column: O_2, PO_4, Si Bottom Sediment: 72 samples collected (snapper-Phleger)	T, S, BT, currents	plankton hauls	
54-0002	U.S.S. BURTON ISLAND	Aug. 8-10, Sept. 7-13	Continental Slope, Tuktoyaktuk Shelf	Water Column: O_2, Si, PO_4	T, S		
54-0003	U.S.C.G.C. NORTHWIND	Aug. 9-14, Sept. 7-10	Amundsen Gulf	Water Column: O_2, Si, PO_4	T, S		
59-0001	FLETCHER'S ICE ISLAND (T-3)	June 17- Sept. 9	Canada Basin	Water Column: O_2, Si	T, S, chlorinity		
62-0001	M.V. SALVELINUS	July 16- Aug. 29	Eskimo Lakes and Liverpool Bay	Water Column: O_2	T, S	Fish invertebrates	
63-0001	M.V. SALVELINUS	July 24- Aug. 28	Amundsen Gulf	Water Column: O_2	T, S	Fish invertebrates	
69-0001	U.S.S. STATEN ISLAND	Aug. 8-10	Continental Slope	Water Column: O_2, PO_4, Si, N	T, S		

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
69-0002	RESEARCH COUNCIL OF ALBERTA	Aug. 7	Mackenzie River Delta	Water Column: (sfc water only) **Li, Na, K, Mg, Ca, Sr, B, Mn, Fe, Ni, Cu, Zn, U, Si, F, Cl, NO_3, HCO_3, SO_4, PO_4 (ortho, fltd), PO_4 (total inorg, filtd), TOC, pH, SPM, 16 amino acids, n-alkane, chlorins, ^{18}O, ^{13}C, ^{34}S** Water Column Suspended Matter: **amino acids** Bottom Sediment: **n-alkane**	T, C, turbidity		
70-0003	C.S.S. RICHARDSON	July	Kugmallit Bay	Bottom Sediment: **B, Cu, Zn, Ni, Li, Mn**	T, S, mineralogy		pooled results from 31 bottom sediments
70-0008	C.S.S. HUDSON	summer	Tuktoyaktuk Continental Shelf	Bottom Sediment: **aromatic and saturated HC, TOC, fatty acids, sterols, amino acids**			

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
70-0009	CSS HUDSON CSS PARIZEAU CSS RICHARDSON Helicopter	1970-1972	Tuktoyaktuk Continental Shelf	Bottom Sediment: **CO_2, $CaCO_3$, C**			
71-0004A	ARCTIC BIOLOGICAL STATION, D.O.E, (Ste. Anne de Bellevue)	Aug. 19-Sept. 9	Eskimo Lakes	Water Column: **O_2, PO_4, NO_3, Si, chl a, pH, POC**	T, S	Secchi depth	
71-0004B	ARCTIC BIOLOGICAL STATION, D.O.E., (Ste. Anne de Bellevue)	Dec. 15	Eskimo Lakes	Water Column: **PO_4, NO_3, Si, chl a, POC**	T, S, ice thickness, snow cover		
71-0005	CANADIAN WILDLIFE SERVICE	Oct., Nov.	Herschel Island, Sachs Harbour	Biota: (polar bears) **PCB; p,p'-DDE, p,p'-DDT**			see 72-0008
72-0002	U.S.C.G.C. STATEN ISLAND	winter	Tuktoyaktuk Continental Shelf	Bottom Sediment: **OC, CO_3, Fe, Mn, Ca, Mg, Na, K, Rb, Li, Zn, Ni, Co, Cu, U**	physical parameters of sediments incl. grain size analysis		

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
72-0003	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	Mar.-Sept.	Mackenzie River Delta; Mackenzie Bay	Atmosphere: **SPM, dustfall, SI, O_3, NO_2, SO_2, H_2S, HC**			Baseline studies in proposed Taglu-Richards Island development area
				Water Column: **TOC, EEHC, SO_4, TH, Ca, Mg, alk_t, pH, turbidity, Cl**	T		
				Biota: (flora and fauna) **Hg, Pb, Cd, Cu, S (flora only)**			
				Soil: **Hg, Pb, Cd, Cu, S**			
				Water Column: **O_2, PO_4, NO_3, Si, chl a, POC**			
72-0004A	ARCTIC BIOLOGICAL STATION, D.O.E.	Mar. 17	Eskimo Lakes	Sea Ice Cores: **PO_4, NO_2, NO_3, Si, chl a, POC**	S (of ice), ice thickness, snow cover		

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
72-0004B	ARCTIC BIOLOGICAL STATION, D.O.E.	May 18 - Sept. 4	Eskimo Lakes	Water Column: O_2, PO_4, NO_3, Si, chl a, POC, pH	T, S		
				Sea Ice Cores: PO_4, NO_3, Si, chl a			
72-0004C	ARCTIC BIOLOGICAL STATION, D.O.E.	Nov. 24-25	Eskimo Lakes	Water Column: PO_4, NO_2, NO_3, Si, chl a, POC, pH	T, S		
				Sea Ice Cores: PO_4, NO_2, NO_3, Si, chl a, POC	S (of ice), ice thickness, snow cover		
72-0005	FISHERIES RESEARCH BOARD	July	Kugmallit Bay	Biota: (Beluga whales) p,p'-DDE; p,p'-DDD, o,p'-DDT; p,p'-DDT			

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
72-0006	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	July 5-Aug. 6	Mackenzie River Delta	Water Column: (sfc samples only) **O_2, pH, alk, TH**	T	Fisheries: gillnet and seine sampling Benthos: species composition and numerical abundance Plankton: (sfc hauls) species composition and relative abundance	
72-0007	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	July 6 Sept. 10	Mackenzie Bay	Water Column: (sfc samples only) **O_2, CO_2, pH, HCO_3, TH**	T, C, currents, continuous water level gauge data	Seechi depth Plankton: species composition and numerical abundance	Baseline studies prior to offshore oil and gas development

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
72-0007 (continued)						Benthos: species composition and numerical abundance Fisheries: offshore gillnet, coastal gillnet, seining and trawling surveys Birds: inventory of birds occurring in study area	
72-0008	CANADIAN WILDLIFE SERVICE	Aug.	Sachs Harbour	Biota: (seals) **PCB, p',p'-DDE; p,p'-DDT; o,p'-DDT; p,p'-DDD**			see 71-0005
72-0014	ARCTIC BIOLOGICAL STATION, D.O.E.	1972, 1973	Amundsen Gulf	Biota: (seals, arctic char) **Hg, Me-Hg**			

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
72-0019	ARCTIC BIOLOGICAL STATION, D.O.E.	1972-1977	Amundsen Gulf	Biota: (seals) **Hg, Me-Hg, Se**			
73-0001	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	Mar. 20-21	Mackenzie Bay	Water Column: (bottom samples only) **pH, HCO_3, CO_3, OH, Ca, Mg, O_2**	S, T, C, turbidity currents, ice thickness	Plankton: species composition and numerical abundance	sampling took place before completion of Immerk artificial island
73-0002	NORTH STAR OF HERSCHEL ISLAND	July 20-27	Tuktoyaktuk Continental Shelf	Water Column: **O_2, NO_3, NO_2, PO_4, Si, chl a, POC**	T, S	zooplankton	
73-0003A	ARCTIC BIOLOGICAL STATION, D.O.E.	Feb. 23; May 19-20	Eskimo Lakes	Water Column: **O_2, PO_4, NO_2, NO_3, Si, chl a, POC, pH**	T, S		
				Sea Ice Cores: **NO_2, NO_3, Si, chl a, POC, PO_4**	S (ice), ice thickness, snow cover		

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
73-0003B	ARCTIC BIOLOGICAL STATION, D.O.E.	June 21-Aug. 23	Eskimo Lakes	Water Column: O_2, PO_4, NO_2, NO_3, Si, chl a, POC, pH	T, S	Secchi depth	
73-0003C	ARCTIC BIOLOGICAL STATION, D.O.E.	July 4-Aug. 17	Eskimo Lakes, and Liverpool Bay	Water Column: PO_4, NO_2, NO_3, Si, chl a, O_2	T, S	Secchi depth	
73-0003D	ARCTIC BIOLOGICAL STATION, D.O.E.	Sept. 30-Oct. 1	Eskimo Lakes	Water Column: O_2, PO_4, NO_2, NO_3, Si, chl a, POC, pH	T, S	Secchi depth	
74-0001	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	Mar. 24-Apr. 18	Mackenzie Bay	Water Column: SiO_2, PO_4, NO_3, pH, HCO_3, CO_3, Ca, Mg, H, SPM, O_2	T, S, currents, ice thickness	Plankton and Benthos: species composition and numerical abundance	winter baseline data program
				Bottom Sediment: TKN, TC	sediment grain size		

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
74-0003	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	July 10-Sept. 29	Mackenzie Bay	Water Column: O_2, pH, alk, H, Si, NO_3, PO_4, Ca, Mg, Cr, Pb, Cd, Ni, SPM, chl a	T, S, C, currents	Benthos and Plankton: species composition and numerical abundance	
74-0007A	M.V. THETA (Arctic Biological Station)	July 14-Sept. 2	Tuktoyaktuk Continental Shelf	Water Column: O_2, NO_2, NO_3, Si, PO_4, chl. a POC	T, S	Secchi depth	
74-0007B	ARCTIC BIOLOGICAL STATION, D.O.E.	Dec. 1	Kugmallit Bay	Water Column: PO_4, NO_3, Si	T, S	Zooplankton	
74-0008	M.V. THETA (Institute of Ocean Sciences, Oc. Chem. Div.)	Aug. 11-Sept. 1	Tuktoyaktuk Continental Shelf	Water Column: O_2, LMWHC, tarballs and plastics, PO_4, NO_3, Si, alk_t Water Column Suspended Matter: PAH Bottom Sediment: PAH, non-polar HC	T, S	Plankton	

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
74-0009	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	Jan. 24, Apr. 10	Mackenzie River Delta	Water Column O_2, pH, SO_4, Cl, HCO_3, CO_3, Ca, Mg, TH, TC, TOC, TIC, SPM, BOD, COD	T, S, C, snow cover, turbidity		baseline studies
74-0010A	ARCTIC BIOLOGICAL STATION, D.O.E.	Mar. 1-2, May 24-25	Eskimo Lakes	Water Column: O_2, PO_4, NO_2, NO_3, Si, chl a, POC, pH	T, S		
				Sea Ice Cores: PO_4, NO_2, NO_3, Si, chl a, POC	S, ice thickness, snow cover		
74-0010B	ARCTIC BIOLOGICAL STATION, D.O.E.	June 20	Eskimo Lakes	Water Column: O_2, PO_4, NO_2, NO_3, Si, chl a, POC, pH	T, S, ice thickness, snow cover		
74-0010C	ARCTIC BIOLOGICAL STATION, D.O.E.	July 2- Aug. 23	Eskimo Lakes	Water Column: O_2, PO_4, NO_2, NO_3, Si, chl a, POC, pH	T, S	Secchi depth	

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
74-0011	AQUATIC RESOURCES (for Canadian Arctic Gas Study Limited)	June 20-Sept. 21	Firth-Malcolm River Estuaries	Water Column: O_2, pH, TDN, TDP, Si, Ca, Mg, Na, K, SO_4, Cl, HCO_3, alk_t	T, S, C	Plankton and Benthos: species composition and numerical abundance	baseline measurements
74-0019	F.F. SLANEY & CO. LTD. (for Sunoco)	Feb.-Mar.	Mackenzie Bay	Water Column: pH, alk (carb.), alk (bicarb.), Ca-H, SPM, Ni, Pb, Zn, Cr, Ca, Mg, O_2, CO_2	C, turbidity	Benthos: species composition and numerical abundance Plankton: species composition and numerical abundance	
74-0020	FRESHWATER INSTITUTE, D.O.E., (Winnipeg)	Mar. 22-Sept. 20	Mackenzie River Delta	Water Column: O_2, pH, H, alk	T, S	Fish populations Secchi depth	see 75-0024

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
74-0021A	NORTHERN OPERATIONS BRANCH, D.O.E. (Whitehorse)	April	Thetis/ Phillips/ Trent Bays	Water Column: pH, alk$_t$, PO_4, NO_3, Si, Ca-H, TH, Cl, SO_4, Fe, TR, FR, Hg, Cu, Ni, Cr, Zn, Co, Mn, Cd, Pb	T, S	Fish populations	see 75-0025
74-0021B	NORTHERN OPERATIONS BRANCH, D.O.E., (Whitehorse)	summer	Thetis/ Phillips/ Trent Bays	Water Column: pH, alk$_t$, ortho-PO_4, SiO_2, NO_3, TR, Fe, org N, Ca-H, TH, Cl, SO_4, PO_4, acid HyPO_4, organic PO_4	S	Fish populations	
74-0021C	NORTHERN OPERATIONS BRANCH, D.O.E., (Whitehorse)	summer July 17-Sept. 24	Thetis/ Phillips/ Trent Bays	Water Column: O_2, pH, alk$_t$, TAc, TH, CO_2	T	Fish populations Secchi depth	
74-0022	AQUATIC ENVIRONMENTS (for Canadian Arctic Gas Study Limited)	Oct. 1/74-Apr. 5/75	Mackenzie River Delta	Water Column: O_2, SPM, pH	T, S, turbidity	Fish populations	

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
74-0027	NORCOR Engineering & Research Ltd. (for Beaufort Sea project) DOE	Nov. 15, 1974 to July 19, 1975	Balaena Bay	Water column: pH, CO_2, HC	T, S	phytoplankton, zooplankton, benthic algae and benthic invertebrate species identification and numerical abundance, primary productivity	oceanographic data collected in conjunction with experimental oil spill see 75-0028A see 75-0028B
75-0004	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	July 8-Aug. 20	Mackenzie and Kugmallit Bays	Water Column: O_2, CO_2, pH, alk_t, HCO_3, CO_3, H, SM, T-SPM, F-SPM, V-SPM, T-DS, F-DS, V-DS, Cl, PO_4, NO_3, Ca, Mg, Cr, Cd, Pb, Ni, Si, TC, TOC, TIC, chl a	T, S, C, currents	Plankton and Benthos: species composition and abundance Fisheries: gillnet and beach seine sampling	monitoring at active, abandonned, and potential artificial island (dredging) site

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
75-0006	M.V. PANDORA II (Institute of Ocean Sciences, Oc. Chem. Div.)	Aug. 5-23	Tuktoyaktuk Continental Shelf	Water Column: O_2, LMWHC, tarballs and plastics, PO_4, NO_3, Si, alk_t, V, PAH, SPM, Hg	S, T, CTD		
				Water Column Suspended Matter: PAH, Si, TM	SPM particle size spectra (Coulter Counter)		most of unanalyzed samples lost due to freezer malfunction
				Bottom Sediment: (cores) PAH, non-polar HC, Fe, Mn, Zn, Cu, Cr, Pb, Cd, Hg, LOI, ^{210}Pb			
				Biota: PAH (fish), non-polar HC (fish), mixed plankton), TM (fish, mixed plankton), Hg (fish, mixed plankton)			

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
75-0009	M.V. THETA	Aug. 20-Sept. 9	Tuktoyaktuk Continental Shelf	Water Column: SPM	T, S		
75-0010A	ARCTIC BIOLOGICAL STATION, D.O.E.	Feb. 27-28	Eskimo Lakes	Water column: O_2, PO_4, NO_3, Si, chl a, POC	T, S	Secchi depth	
				Sea Ice Cores: PO_4, NO_3, Si, chl a, POC	S		
75-0010B	ARCTIC BIOLOGICAL STATION, D.O.E.	June 15-July 21	Eskimo Lakes	Water Column: O_2, PO_4, NO_2, NO_3, Si, chl a	T, S	Secchi depth	
75-0011	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	Apr. 11-Sept. 29	Taglu, Richards Island	Water Column: (sfc samples only) pH, O_2, T-SPM, F-SPM, V-SPM, T-DS, F-DS, V-DS, HCO_3, Cl, SO_4, PO_4, NO_3, Cd, Fe, Ca, Mg, Cr, Pb, Ni, As, Fe, TC, TOC, TIC CO_2, SM, BOD	T, C, hydrologic data (e.g. water levels, flow rates channel bathymetry, ice thickness, ice properties, ice break-up patterns, ice jams, extent of flooding, drainage networks, storm surges), turbidity		baseline data prior to construction of proposed gas plant at TAGLU D-43

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
75-0012A	M.V. PANDORA II and helicopter (Arctic Biological Station)	May 5-9	Tuktoyaktuk Continental Shelf	Water Column: **PO_4, NO_3, Si**	T, S		
75-0012B	M.V. SALVELINUS M.V. PANDORA II (Arctic Biological Station)	June 17; July 5-18	Tuktoyaktuk Continental Shelf	Water Column: **O_2, PO_4, NO_2, NO_3, Si, chl a**	T, S	Secchi depth	
75-0024	FRESHWATER INSTITUTE, D.O.E. (Winnipeg)	Mar. 8-18	Mackenzie River Delta	Water column: **O_2, pH, H, alk**	T, S	Fish populations Secchi depth	see 74-0020
75-0025	NORTHERN OPERATIONS BRANCH, D.O.E. (Whitehorse)	May 5-17	Thetis/ Phillips/ Trent Bays	Water Column: **pH, alk_t, TR, PO_4, PO_4, acid Hy-PO_4, organic PO_4, Ca-H, TH, Fe, Cl, SO_4, Si, TKN, NH_3, organic N, NO_3, Hg, Cu, Ni, Cr, Co, Mn, Cd, Pb**	T, S, C	Fish populations epibenthic invertebrates benthic invertebrates	see 74-0021

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
75-0028A	GLACIOLOGY DIVISION, D.O.E. (Ottawa)	May 18-June 23	Balaena Bay	Water Column: **O_2, pH, ORP**	T, C		see 75-0026
75-0028B	GLACIOLOGY DIVISION, D.O.E. (Ottawa)	May 25-June 30	Balaena Bay	Water Column: **alk_t, Ca, Cl, Mg, NO_3, PO_4, K, Na, SO_4, pH** Ice Cores: **chl a**	T, C. underwater irradiance	Plankton: numerical abundance and species composition Algae: species composition of melt ponds	oceanographic data collected in conjunction with experimental oil spill see 75-0026
76-0003	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	Aug. 14 Sept. 7	Kugmallit Bay	Water column: **O_2, pH, HCO_3, H, T-SPM, F-SPM, V-SPM, T-DS, F-DS, V-DS, Cl, PO_4, NO_3, Ca, Mg, Cr, Cd, Pb, Ni, Si, TC, TOC, TIC** Bottom Sediment: **Cu, Pb, Ni, Cr, Cd, Hg, V, Ba, Zn TC, Gr C**	turbidity sediment grain size	Plankton and Benthos: species composition and numerical abundance Fisheries: gillnet sampling of fish at sfc, mid-depth and near bottom	baseline measurements of ten proposed offshore artificial island sites

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
76-0004	F.F. SLANEY & CO. LTD. (for Imperial Oil Limited)	July 17-20; Sept. 2-3	Tuktoyaktuk Continental Shelf	Water Column: **O_2, pH, alk_t, H, SM, T-SPM, F-SPM, V-SPM, T-DS, F-DS, V-DS, Cl, PO_4, NO_3, Cu, Mg, Cr, Cd, Pb, Ni, Si, TC, TOC, TIC, chl a** Bottom Sediment: **TC, Gr C**	T, S, C, currents water transparency, turbidity sediment grain size	Plankton: and Benthos: species composition and numerical abundance Fisheries: beach seine sampling rate of primary production	monitoring during dredging for borrow gravel near Tuft Point
76-0005	F.F. SLANEY & CO. LTD. (for Imperial Oil Oil Limited)	July 28-Aug. 31; Sept. 4-6	Tuktoyaktuk Continental Shelf (Arnak L-30 artificial island)	Water Column: **O_2, pH, CO_2, alk_t, HCO_3, CO_3, H, SM, T-SPM, F-SPM, V-SPM, T-DS, F-DS, V-DS, Cl, PO_4, NO_3, Ca, Mg, Cr, Cd, Pb, Ni, Si, TC, TOC, TIC** Bottom Sediment: **TC, Gr C, Cu, Pb, Zn, Cd, Ni, Cr**	T, S, C, turbidity, water transparency, currents sediment grain size	Plankton and Benthos: species composition and numerical abundance Fisheries: gillnet sampling at sfc, mid-depth and near bottom	monitoring of discharge plume and control sites during and following construction of an artificial island; pre-dredging measurement

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
76-0006	ARCTIC SUN (F.F. Slaney & Co. Ltd. for Imperial Oil Limited)	Aug. 28-29	Tuktoyaktuk Continental Shelf (Netserk F-40 drillsite)	Bottom Sediment: **Cu, Pb, Zn, Ni, Cr, Cd, Hg, V, Ba** Biota: (benthos) **Cu, Pb, Zn, Ni, Cr, Cd, V**	sediment grain size		monitoring following the discharge of dilute drilling wastes during winter 1975-1976
77-0001	FRESHWATER INSTITUTE, D.O.E. (Winnipeg)	July 4-Aug. 11	Mackenzie Bay	Water Column: **turbidity (as SiO_2)**	T, S	White Whales: distribution and abundance	
77-0002	AQUATIC ENVIRONMENTS LIMITED (for Imperial Oil Limited)	July 16-23; Aug. 27-Sept. 2	Kugmallit Bay	Water Column: **O_2, SPM, pH**	T, S, C, turbidity	Benthos and plankton: species composition and numerical abundance Fisheries: gillnet, seine, Taker net and bottom trawl sampling	Baseline data in areas of sub-borrow areas

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
77-0003	M.V. PANDORA II (Institute of Ocean Sciences, Oc. Chem. Div.)	Aug. 11-Sept. 6	Amundsen Gulf	Water Column: **O_2, PO_4, NO_3, Si, SPM, Hg,** HC Bottom Sediment: **Fe, Mn, Cu, Zn, Pb, Cd, OC** cores for ^{210}Pb dating, HC Biota: (plankton) samples for HC and TM collected	T, S		Baseline data
77-0006	B.C. CANCER RESEARCH CENTRE	1977, 1979	Mackenzie River Delta; Intertidal Beaufort Coast	Bottom Sediment: **B(a)P**			Baseline measurements
77-0007	SEAKEM OCEANOGRAPHY LTD. (for Dome Petroleum Limited)	July 11-Sept. 5	Tuktoyaktuk Continental Shelf	Water Column: **Cu, Zn, Cd, Pb, Cr, Hg, Fe** Bottom Sediment: (total and extractable) **Cu, Zn, Cd, Pb, Cr, Hg, Fe** Biota: (benthos) **Cu, Zn, Cd, Pb, Cr, Hg, Fe**		Benthos: species composition and numerical abundance	Baseline measurements at 10 proposed drillsites

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
77-0008	BEAK (for Imperial Oil Limited)	July 19-25; July 27-31; Aug. 13-20	Mackenzie River Delta; Mackenzie Bay (Isserk F-27 Netserk F-40)	Water column: **Hg, As, Cd, Cr, Pb, Zn** Bottom Sediment: **Hg, As, Cd, Cr, Pb, Zn** Biota: (benthos, fish, beluga whales) **Hg, As, Cd, Cr, Pb, Zn**		Benthos: species composition and numerical abundance	- monitoring during construction of Isserk F-27 - post-drilling monitoring at at Netserk F-40 - baseline measurements in river channels
77-0009	IMPERIAL IMMERK (Envirocon Ltd. for Imperial Oil Limited)	July 26- Aug. 29	Tuktoyaktuk Continental Shelf (Isserk F-27)	Water Column: **O_2, alk$_t$, NO_3, NO_2, NH_3, PO_4, Si, SPM,** chl a Bottom Sediment: **TC, OC**	T, S, C, currents, sediment grain size	Secchi depth Plankton and Benthos: species composition and numerical abundance Fisheries: gillnet sampling	monitoring during construction of Isserk F-27

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
77-0010	CANMAR SUPPLIER V (Seakem Oceanography for Dome Petroleum Limited)	Sept. 12-Oct. 4	Tuktoyaktuk Continental Shelf (Tingmiark K-91)	Water Column: Cd, Cr, Cu, Pb, Zn, Fe, Ni, Hg, Ca, Mg, Na, K, SO_4, Ba, sulphide Sediment (drilling fluid pore water): Cd, Cr, Cu, Pb, Zn, Fe, Ni, Hg Bottom Sediment: Cd, Cr, Cu, Pb, Zn, Fe, Ni, Hg	CTD		monitoring at and near the Tingmiark K-91 gloryhole during a flow of water and gas
78-0002	CANMAR SUPPLIER V (Seakem (Oceanography for Dome Petroleum Limited)	July 15-19	Tuktoyaktuk Continental Shelf (Tingmiark K-91; Kopanoar D-14)	Water Column: Fe, Cu, Zn, Cd, Ni, Cr, Pb, Hg, Ba, Na, K, Mg, Ca, SO_4 Bottom Sediment: (total and extractable) Fe, Cu, Zn, Cr, Ni, Pb, Cd, Hg, Ba **Biota:** (benthos) Cu, Zn, Cd, Pb, Cr, Ni, Hg, Fe, Ba	CTD	Plankton and Benthos: species composition and numerical abundance	monitoring at Tingmiark K-91 following gas and water flows and at D-14 following gas flow

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
78-0018	SEAKEM OCEANOGRAPHY LTD. (for Dome Petroleum Limited)	July 20	Tuktoyaktuk Continental Shelf (Tarsiut A-25)	Water Column: **Fe, Cu, Zn, Cd, Ni, Cr, Pb, Hg, pH, Na, Mg, K, Ca, SO_4** Bottom Sediment: (total and extractable) **Fe, Cu, Zn, Cr, Ni, Pb, Cd, Hg** Biota: (benthos) **Fe, Cu, Zn, Cr, Ni, Pb, Cd, Hg**	CTD	Benthos and Zooplankton: species composition and numerical abundance	Baseline measurements at a proposed drillsite
78-0019	CANMAR EXPLORER III (Seakem Oceanography Ltd. for Dome Petroleum Limited)	July 29-30	Tuktoyaktuk Continental Shelf	Water Column: **Fe, Cu, Zn, Cr, Ni, Pb, Cd, Hg, pH, Ca, Mg, K, Na, SO_4, O_2** Bottom Sediment: (total and extractable) **Fe, Cu, Zn, Cr, Ni, Pb, Cd, Hg**	CTD		studies during occurrence of shallow water flow

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
79-0005	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	May 21-Sept. 19	Amundsen Gulf (Summers Harbour)	Water Column: **SPM, COD** Bottom Sediment: **NHS, Fe, Zn, Pb, Ni, Cd, Cr, Cu Hg**	CTD, water transparency		monitoring of coal dust distribution before, during and after spring break-up
79-0006	M.V. PRESSURE RIDGE (Arctic Laboratories Limited for Dome Petroleum Limited)	July 13-14	McKinley Bay Tuktoyaktuk Harbour	Bottom Sediment: **Fe, Cu, Zn, Cr, Ni, Cd, Pb, Be, Ag, Hg, PCB, DDT, DDE, TOC, HEC**	sediment grain size		baseline measurements prior to proposed dredging activities
79-0007	CANMAR SUPPLIER V (Arctic Laboratories Limited for Dome Petroleum Limited)	June 22	Tuktoyaktuk Continental Shelf (Kilannak A-77)	Water Column: **Fe, Cu, Zn, Cd, Ni, Cr, Pb, Hg** Bottom Sediment: **Fe, Cu, Zn, Cr, Ni, Pb, Cd, Hg, TOC** Biota: (benthos) **Fe, Cu, Zn, Cr, Ni, Pb, Cd, Hg**	CTD	Benthos: species composition and numerical abundance	baseline measurements

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
79-0008	CANMAR SUPPLIER V (Arctic Laboratories Limited for Dome Petroleum Limited)	Aug. 31-Sept. 4	Tuktoyaktuk Continental Shelf (Tingmiark K-91; Ukalerk C-50; Ukalerk 2C-50; Kenalooak J-94)	Bottom Sediment: **Cu, Zn, Fe, Cr, Ni, Cd, Pb, Ba**		Benthos: histopathological examination of selected species	monitoring at abandonned drilling sites
79-0009	CANMAR SUPPLIER V (Arctic Laboratories Limited for Dome Petroleum Limited)	Sept. 9	Tuktoyaktuk Continental Shelf (Nerlerk M-98)	Water Column: **Fe, Zn, Cu, Cr, Ni, Pb, Cd, SPM, Cl**	CTD, water transparency	Plankton: qualitative species information; ^{14}C measurements in drilling fluid discharge plume	monitoring of properties and effects of bulk discharge of waste drilling fluids
79-0010	ZANEN F-15 (Arctic Laboratories Limited for Dome Petroleum Limited)	Sept. 25-27	McKinley Bay	Water Column: **O_2, SPM, pH**	CTD, water transparency		oceanographic monitoring during active suction dredging operations

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
80-0003	BEAUFORT SEA EXPLORER; IMPERIAL ADGO; ZANEN F-15 (Arctic Laboratories for Dome Petroleum Limited)	July 4-Sept. 26	McKinley Bay	Water Column: O_2, SPM	CTD, water transparency		monitoring surveys during ongoing and intermittent dredging
80-0004A	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	July 10-12	Tuktoyaktuk Harbour	Water Column: O_2 Bottom Sediment: Cu, Zn, Pb, Cr, Cd, Ni, Hg, Fe, TOC	CTD, water transparency sediment grain size	Benthos: - species composition and numerical abundance - histopathological examination of *Cyrtodaria kurriana*	measurements prior to proposed dredging activity
80-0004B	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	Aug. 12-15	Tuktoyaktuk Harbour	Water Column: O_2	CTD, water transparency	Benthos: histopathological examination of *Cyrtodaria kurriana*	measurements prior to proposed dredging activity

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
80-0004C	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	Aug. 27-Sept. 3	Tuktoyaktuk Harbour	Water Column: **O_2, SPM**	CTD (includes time series CTD data Aug. 15 - Sept. 25), water transparency	Benthos: - species composition and numerical abundance - histopathological examination of Cyrtodaria kurriana	measurements prior to proposed dredging activity
				Bottom Sediment: **Cu, Zn, Pb, Cr, Cd, Ni, Hg, Fe, TOC, HEC**	sediment grain size		
80-0004D	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	Sept. 24-26	Tuktoyaktuk Harbour	Water Column: **O_2, SPM**	CTD, water transparency		measurements prior to proposed dredging activity
80-0005	DOME PETROLEUM LIMITED	ca July 19-Aug. 6	McKinley Bay	Dredged Sediment: **Cu, Zn, As, Pb, Cd, Hg, TOC, HEC, OUR**	sediment grain size		monitoring of dredge spoil discharge
80-0006	BEAK LTD. (for Esso Resources Canada Limited)	Aug. 27-Sept. 3	Tuktoyaktuk Continental Shelf (Issungnak O-61)	Bottom Sediment: **As, Cd, Cr, Pb, Zn, VS, O & G, C, H, N, BOD, COD** Biota: (benthos) **Hg, As, Cd, Cr, Pb, Zn**	sediment grain size	Benthos: species composition and numerical abundance	monitoring following discharge of waste drilling fluids

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
80-0016	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	Apr. 9	McKinley Bay	Water Column: O_2	T, S, currents	Benthos: species composition and numerical abundance	part of experimental under ice oil spill
81-0003A	Helicopter (Arctic Laboratories for Esso Resources Canada Limited)	Mar. 6-9	Tuktoyaktuk Continental Shelf	Water Column: **Zn, Cu, Hg, Cd, Cr, O_2, PO_4, NO_3, Si, SPM,** PAH, TOC, POC, DOC, alk_t Water Column Suspended Matter: Cu, Cd, Zn, Cr, Hg Bottom Sediment: Cu, Cd, Zn, Cr, Hg, TOC, PAH	T, S	Benthos: species composition and numerical abundance Zooplankton and Phytoplankton: species composition and numerical abundance	ca 25 h time series data taken for most parameters
81-0003B	Helicopter (Arctic Laboratories for Esso Resources Canada Limited)	May 13-16	Tuktoyaktuk Continental Shelf	Water Column: **Zn, Cu, Hg, Cd, Cr, O_2, PO_4, NO_3, Si, SPM,** PAH, TOC, DOC, POC, alk_t	T, S	Zooplankton, Phytoplankton, and Ice Epontics: species composition	25 hour time series measurements taken for most parameters

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
81-0003B (continued)				Water Column: Suspended Matter: Cu, Cd, Zn, Cr, Hg		and numerical abundance	
81-0003C	MV SEQUEL (Arctic Laboratories for Esso Resources Canada Limited)	July 23-26	Tuktoyaktuk Continental Shelf	Water Column: **Zn, Cu, Hg, Cd, Cr, O_2, PO_4, NO_3, Si, SPM,** PAH, TOC, DOC, POC, alk_t Water Column Suspended Matter: Zn, Cu, Cd, Cr, Hg Bottom Sediment: Zn, Cu, Cd, Cr, Hg	T, S	Zooplankton, Phytoplankton, Benthos: species composition and numerical abundance	25 hour time series data taken for most parameters
81-0004	ESSO RESOURCES CANADA LIMITED	spring	Tuktoyaktuk Continental Shelf	Bottom Sediment: **Cu, Cd, Zn, Ni, Cr, Hg, HEC**			

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
81-0005	ARCTIC LABORATORIES LIMITED (for Gulf Canada Resources Inc.)	July 14-17	Balaena Bay	Surface Sediment: (uncontaminated and contaminated samples) HC		Benthos: Histopathological analysis of reproductive tract, and digestive tract; size distribution and level of parasites	assessment of the environmental impact of the 1974/75 experimental oil spills
81-0010	ESSO RESOURCES CANADA LIMITED	summer	Kugmallit Bay	Bottom Sediment: **Cu, Zn, Cr, Ni, Cd, Pb, As, V, Be, Fe, Hg, HEC**			
81-0011	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	Aug. 12-13	McKinley Bay	Bottom Sediment: **Hg, Ni, Zn, Cu, Cr, HEC**	sediment grain size		
81-0012	ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	Sept. 29-Oct. 2	McKinley Bay	Bottom Sediment: **HEC**	sediment grain size		

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
81-0013	ARCTIC LABORATORIES LIMITED (for GNWT)	June 18-July 6	Tuktoyaktuk Harbour	Water Column: **O_2, SPM**	T, S, turbidity		25 hour time series data taken
81-0014	ENVIRONMENTAL PROTECTION SERVICE, D.O.E., (Yellowknife)	August	McKinley Bay	Bottom Sediment: **HEC**			
81-0015A	ARCTIC LABORATORIES LIMITED (for Arctic Biological Station)	May 16-Sept. 26	Tuktoyaktuk Continental Shelf	Ice Cores: **PO_4, NO_3, Si, chl a, phaeo.** Water Column: O_2, PO_4, NO_3, Si, chl a, phaeo.	S, submarine irradiance	Epontic Ice Algae: species composition and numerical abundance	see 81-0003 A, B, C 25-hour time series data taken
81-0015B	ARCTIC LABORATORIES LIMITED (for Arctic Biological Station)	Apr. 21-June 20	McKinley Bay	Ice Cores: **PO_4, NO_3, Si, chl a, phaeo.** Water Column: **PO_4, NO_3, Si,**	S, submarine irradiance	Epontic Ice Algae: species composition and numerical abundance	

DATA SET I.D.	COLLECTING AGENCY, SHIP	DATES OF MEASUREMENT	AREA	CHEMICAL QUANTITIES MEASURED OR SAMPLED	CONCURRENT PHYSICAL MEASUREMENTS	CONCURRENT BIOLOGICAL MEASUREMENTS	REMARKS
81-0018	M.V. SEQUEL ARCTIC LABORATORIES LIMITED (for Dome Petroleum Limited)	Sept. 11, 22 · 1981	Tuktoyaktuk Continental Shelf	Bottom Sediment: **Be, V, Cr, Fe, Ni, Cu, Zn, As, Cd, Hg, Pb, aliphatic HC, PAH, HEC, TOC**	S	Benthos: species composition and numerical abundance	studies related to artificial island construction

8. DATA INVENTORY TABLE 2.

NOTES APPLICABLE TO TABLE 2

The following notes are referred to in the remarks column of Table 2.

NOTE 1.

Delta value
The delta value (in parts per thousand) is defined as:

$$\delta Y = \left(\frac{R_x}{R_{ST}} - 1 \right) \times 1000$$

where Y = ^{13}C, ^{18}O, ^{34}S etc.

R_x = isotopic ratio of unknown (e.g. $^{18}O/^{16}O$)

R_{ST} = isotopic ratio of standard

The standard is Chicago PDB for carbon; SMOW (Standard Mean Ocean Water) for oxygen and CDT (Cañon Diablo Troilite) for sulphur.

NOTE 2.

Ratings for dissolved heavy metals and nutrients were downgraded to 0 if values reported for background conditions exceeded the concentrations listed below. These "upper limit values" are based on defendable maximum published values for unpolluted coastal areas.

Element	Concentration µmol m^{-3}
Mn	180
Fe	180
Zn	76
Cr	19
Cu	79
Pb	5
Cd	9
Ni	85
Co	85
Mo	52
Hg	0.1
As	67
	mmol m^{-3}
Si	70
NO_3-N	30
PO_4-P	3.0

A double rating score, (x,0) indicates that some (unspecified) samples may have a rating of 0 while others are of higher data qualtiy.

NOTE 3.

Silicate determined on samples having salinity values less than 27 x 10^{-3} that have been stored by freezing are prone to large uncertainties (see Section 5.5.3). In the inventory a value of 0 is assigned to those samples for which the above conditions prevail. A double rating of (0, x) indicates some data with a 0 rating (low salinity, stored by freezing) and others with a rating of x.

NOTE 4.

When results are quoted on a WWB and no water content is given, a 4-rating is impossible because of the large variability (perhaps ±50% or more) possible among the samples. Where no water content is given for results when wet weight basis is used, "NOTE 4" is indicated in the remarks column. A maximum rating score of 2 is assigned.

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision *	Accuracy	Range	Mean	Median		
52-0001	SEA WATER	O_2	mol m^{-3}	128	1219	1219	Fjarlie bottle cast	NS	Macro WT	unspecified level of uncertainty due to lack of standardization of thiosulphate soln		0.103 - 0.479	0.341	0.335	0	
52-0002	SEA WATER	O_2	mol m^{-3}	21	161	161	bottle cast	NS	NS	NS	NS	0.253 - 0.446	0.359	0.372	2	
53-0001	SEA WATER	O_2	mol m^{-3}	19	189	189	bottle cast	NS	NS	NS	NS	0.238 - 0.446	0.322	0.333	2	
54-0002	SEA WATER	O_2	mol m^{-3}	28	183	183	NS	NS	NS	NS	NS	0.251 - 0.442	0.357	0.358	2	
		PO_4	mmol m^{-3}	13	93	93	NS	NS	NS	NS	NS	0.05 - 1.40	0.70	0.63	2	
54-0003	SEA WATER	O_2	mol m^{-3}	17	135	135	NS	NS	NS	NS	NS	0.214 - 0.442	0.358	0.363	2	
		PO_4	mmol m^{-3}	17	128	128	NS	NS	NS	NS	NS	0.31 - 1.53	0.82	0.78	2	
		Si	mmol m^{-3}	1	8	8	NS	NS	NS	NS	NS	5 - 16	10	12	2	
59-0001	SEA WATER	O_2	mol m^{-3}	7	81	81	Nansen bottle cast	glass bottles	NS	NS	NS	0.236 - 0.441	0.319	0.296	2	
		Si	mmol m^{-3}	6	122	122	Nansen bottle cast	PE bottles	NS	NS	NS	1.4 - 25.6	10.6	9.1	2	
62-0001	SEA WATER	O_2	mol m^{-3}	13	52	52	NS	NS	NS	NS	NS	0.13 - 0.33	0.25	0.24	2	
63-0001	SEA WATER	O_2	mol m^{-3}	13	105	105	Nansen bottle cast	NS	WT	NS	NS	0.22 - 0.37	0.29	0.29	2	
69-0002	RIVER WATER (Mackenzie Surface Water)	Li	mmol m^{-3}	1	1	0	1 or 5 gallon PE bottles	+ HNO_3 (to pH = 1.7) after at least 3 d	AAS direct aspiration	NS	NS	-	< 0.72	-	2	filtered
		Na	mol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	Flame photometry	NS	NS	-	0.31	-	2	
		K	mol m^{-3}	1	1		1 or 5 gallon PE bottles	NS	Flame photometry	NS	NS	-	0.17	-	2	
		Mg	mol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	calculated from TH and Ca	NS	NS	-	0.32	-	2	
		Ca	mol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	EDTA titration	NS	NS	-	0.90	-	2	
		Sr	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	+ HNO_3 (to pH = 1.7) after at least 3 d	AAS direct aspiration	NS	NS	-	2.40	-	2	filtered
		B	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	acidified in field	Colorimetry (dianthrimide)	NS	NS	-	1.85	-	2	not filtered
		Mn	mmol m^{-3}	1	1	0	1 or 5 gallon PE bottles	+ HNO_3 (to pH = 1.7) after at least 3 d	AAS direct aspiration	NS	NS	-	< 18	-	2	filtered
		Fe	mol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	Colorimetry; AuA	NS	NS	-	0.72	-	2	
		Ni	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	+ HNO_3 (to pH = 7) after at least 3 d	Solvent extraction; AAS	NS	NS	-	31	-	2	filtered
		Cu	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	+ HNO_3 (to pH = 7) after at least 3 d	Solvent extraction; AAS	NS	NS	-	31	-	2	filtered
		Zn	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	+ HNO_3 (to pH = 7) after at least 3 d	Solvent extraction; AAS	NS	NS	-	15	-	2	filtered
		U	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	acidified in field	Fluorometry	NS	NS	-	2	-	2	not filtered
		Si	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	unfrozen for at least 3 d	Colorimetry (molybdenum blue); AuA	NS	NS	-	27	-	0	improper storage

SET NO.	SAMPLED			STATIONS	SAMPLES	SAMPLES <d.l.			INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
		F	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	Fluoride electrode	NS	NS	-	4.7	-	2	
		Cl	mol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	Colorimetry; AuA	NS	NS	-	0.21	-	2	
		NO_3	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	Colorimetry; AuA	NS	NS	-	4.52	-	2	
		HCO_3	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	Calculated from Alk$_t$ and phenol alkalinity	NS	NS	-	1.74	-	2	
		SO_4	mol m^{-3}	1	1	1	1 or 5 gallon PE bottles	NS	Cation exchange; titration with $BaCl_2$	NS	NS	-	0.33	-	2	
		PO_4	mmol m^{-3}	1	1	0	1 or 5 gallon PE bottles	unfrozen for at least 3 d	Colorimetry; AuA	NS	NS	-	<0.105	-	0	ortho, filtered; improper storage
		PO_4	mmol m^{-3}	1	1	1	1 or 5 gallon PE bottles	unfrozen for at least 3 d	Colorimetry; AuA	NS	NS		0.105	-	0	total inorganic; filtered; improper storage
		TOC	mol m^{-3}	1	1	1	NS	NS	CO_2 by IR	NS	NS	-	0.33	-	2	
		pH	pH units	1	1	1	NS	NS	pH meter (in field)	NS	NS	-	7.6	-	2	
		Turbidity	NS	1	1	1	NS	NS	Hach Turbidimeter	NS	NS	-	62	-	2	
		SPM	g m^{-3}	1	1	1	NS	NS	Filtration (Whatman GF/C); gravimetry	NS	NS	-	34	-	2	
		Amino Acids	mg m^{-3}	3	3	3	NS	NS	IEC/hydrolysis; GC	NS	NS	3.5 - 7.6	5.2	4.4	2	dissolved free (indiv. values also given)
		Amino Acids	mg m^{-3}	3	3	3	NS	NS	IEC/hydrolysis; GC	NS	NS	39.5 - 50.1	44.7	44.4	2	dissolved, combined
		Amino Acids	mg m^{-3}	3	3	3	NS	NS	IEC/hydrolysis; GC	NS	NS	43.0 - 54.5	49.8	52.0	2	total dissolved
		n-alkanes	mg m^{-3}	1	1	1	NS	NS	extraction (n-heptane); GC	NS	NS	-	trace	-	2	
		chlorins	μg m^{-3}	1	1	1	NS	NS	MS extraction (ether); AS/SF	NS	NS	-	8	-	2	
		$\delta^{18}O$		1	1	1	evacuated PE bottles beneath air/water interface	PE bottles	MS analysis of CO_2	NS	NS	-	-18.3	-	2	values rel. to SMOW; see Note 1
		$\delta^{13}C$		1	1	1	evacuated PE bottles beneath air/water interface	PE bottles + $HgCl_2$	MS analysis of CO_2	NS	NS	-	-8.1	-	2	values rel. to Chicago PDB; see Note 1
		$\delta^{34}S$		1	1	1	evacuated PE bottles beneath air/water interface	PE bottles + $HgCl_2$	MS analysis of SO_2	NS	NS	-	-8.1	-	2	values rel. to meteorite troilite; see Note 1
	SUSPENDED PARTICULATES	Amino Acids	mg m^{-3} (mg kg^{-1})	3	3	3	NS	NS	IEC/hydrolysis; GC	NS	NS	1020 - 1460 (1233)	113	1190	2	
	BOTTOM SEDIMENT (surface layer)	n-alkanes	mg kg^{-1}	1	1	1	NS	NS	Extraction (acetone/benzene, methanol/hexane); GC	NS	NS	-	6.2	-	2	DWB
70-0003	**BOTTOM SEDIMENT** (surface layer)	B	mmol kg^{-1}	NS	82	NS	NS	NS	Spectrophotometry	NS	NS	-	7.12	-	2	NPG; DWB; results are pooled average
		Cu	mmol kg^{-1}	NS	82	NS	NS	NS	AAS	NS	NS	-	0.39	-	2	DWB; results are pooled average

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
		Zn	mmol kg^{-1}	NS	82	NS	NS	NS	AAS	NS	NS	-	1.16	-	2	D&B; results are pooled average
		Ni	mmol kg^{-1}	NS	82	NS	NS	NS	AAS	NS	NS	-	0.58	-	2	D&B; results are pooled average
		Li	mmol kg^{-1}	NS	82	NS	NS	NS	AAS	NS	NS	-	1.87	-	2	D&B; results are pooled average
		Mn	mmol kg^{-1}	NS	82	NS	NS	NS	AAS	NS	NS	-	6.06	-	2	D&B; results are pooled average
70-0008	BOTTOM SEDIMENT (Surface Layer)	TOC	mol kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	LECO Combustion Methods	NS	NS	0.50 - 1.10	0.95	NS	2	
		Saturated HC (C_{11}-C_{36})	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	CC; GC	NS	NS	1.23 - 9.40	3.10	NS	2	
		Aromatic HC	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	TLC separation; VS/FS/MS	NS	NS	0.1 - 1.1	0.75	NS	2	
		Fatty Acids (C_{14}-C_{24})	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	Saponification; GC	NS	NS	15 - 63	30	NS	2	
		Fatty Acids (C_{25}-C_{34})	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	Saponification; GC	NS	NS	NS	5	NS	2	
		Sterols	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	CC/TLC; GCMS	NS	NS	NS	5.2	NS	2	
		Chlorins	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	CC/TLC; GCMS	NS	NS	NS	3.8	NS	2	
		Metal Porphyrin	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	CC/TLC; VS/FS	NS	NS	0.01 - 0.05	NS	NS	2	
		Amino Acids	mg kg^{-1}	NS	10	10	grab	4°C during cruise; frozen afterwards	Acid hydrolysis/ IEC; GC	NS	NS	NS	400	NS	2	
70-0009	BOTTOM SEDIMENT	CO_2	mmol kg^{-1}	50	50	50	Van Veen grab or Dietz La Fond grab	NS	NS	NS	NS	59.1 - 481.7	204.5	190.9	2	
		$CaCO_3$	mmol kg^{-1}	50	50	50	Van Veen grab or Dietz La Fond grab	NS	NS	NS	NS	18.0 - 480.5	205.8	189.8	2	
		Org. C	mol kg^{-1}	50	50	50	Van Veen grab or Dietz La Fond grab	NS	NS	NS	NS	0.92 - 1.75	1.30	1.25	2	
71-0004A	SEA WATER	O_2	mol m^{-3}	5	32	32	NS	NS	WT	NS	NS	0.316 - 0.336	0.326	0.326	2	
		PO_4	mmol m^{-3}	5	32	8	NS	NS	S & P	NS	NS	0.00 - 0.30	0.02	0.00	2	
		NO_3	mmol m^{-3}	5	32	32	NS	NS	S & P	NS	NS	0.4 - 0.7	0.55	0.6	2	
		Si	mmol m^{-3}	3	22	22	NS	NS	S & P	NS	NS	3.6 - 5.1	4.07	3.85	0	Note 3
		Chl a	mg m^{-3}	2	9	9	NS	NS	S & P	NS	NS	0.20 - 0.62	0.42	0.48	2	
		pH	pH units	2	10	10	NS	NS	NS	NS	NS	7.75 - 7.98	7.90	7.89	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES ud.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
71-0004B	**SEA WATER**	PO_4	mmol m^{-3}	1	6	6	NS	NS	S & P	NS	NS	0.02 - 0.08	0.05	0.04	2	
		NO_3	mmol m^{-3}	1	6	6	NS	NS	S & P	NS	NS	2.4 - 2.8	2.6	2.6	2	
		Si	mmol m^{-3}	1	6	6	NS	NS	S & P	NS	NS	2.5 - 3.7	3.1	3.1	0	Note 3
		Chl a	mg m^{-3}	1	6	6	NS	NS	S & P	NS	NS	0.06 - 0.29	0.13	0.10	2	
		POC	mg m^{-3}	1	6	2	NS	NS	S & P	NS	NS	0 - 67	13.3	0	2	
71-0005	**BIOTA** (polar bear, Ursus maritimus)	PCB	µg kg^{-1}	2	4	4	from skulls of hunted animals	years at -20ºC	EC-GC	NS	NS	9 - 33	23	25	2	WWB; Note 6
		PCB	µg kg^{-1}	2	4	4	from skulls of hunted animals	years at -20ºC	EC-GC	NS	NS	1210 - 3130	2360	2360	2	lipid weight
		p,p'-DDE	nmol kg^{-1}	2	3	3	from skulls of hunted animals	years at -20ºC	EC-GC	NS	NS	3 - 16	9	9	2	WWB; Note 6
		p,p'-DDE	nmol kg^{-1}	2	3	3	from skulls of hunted animals	years at -20ºC	EC-GC	NS	NS	225 - 1409	786	818	2	lipid weight
		p,p'-DDT	nmol kg^{-1}	2	3	3	from skulls of hunted animals	years at -20ºC	EC-GC	NS	NS	3 - 11	7	-	2	WWB; Note 6
		p,p'-DDT	nmol kg^{-1}	2	2	2	from skulls of hunted animals	years at -20ºC	EC-GC	NS	NS	333 - 1013	674	-	2	lipid weight
72-0002	**BOTTOM SEDIMENT** (Surface Layer)	Org. C	mol kg^{-1}	3	3	3	short cores (length unspecified)	NS	IR	±20%	NS	0.94 - 0.97	0.97	0.97	2	DWb
		CO_3	mol kg^{-1}	3	3	3	short cores (length unspecified)	NS	IR	±11%	NS	0.32 - 0.68	0.47	0.40	2	DWB
		Fe	mol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	± 4%	NS	0.51 - 0.63	0.58	0.60	2	DWB
		Mn	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	± 4%	NS	3.6 - 7.3	5.5	3.6	2	DWB
		Ca	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	± 4%	NS	12.5 - 27.5	22.5	25.0	2	DWB
		Mg	mol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	± 4%	NS	0.39 - 1.81	0.96	0.69	2	DWB
		Na	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	± 4%	NS	0.50 - 1.11	0.77	0.69	2	DWB
		K	mol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	± 4%	NS	0.84 - 1.27	1.07	1.11	2	DWB
		Rb	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	±12%	NS	0.76 - 1.76	1.28	1.32	2	DWB
		Li	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO_3 digestion; FAAS	±12%	NS	5.33 - 10.37	7.93	7.93	2	DWB

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
72-0002 (cont'd)		Zn	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO$_3$ digestion; FAAS	±12%	NS	1.27 - 2.14	1.59	1.38	2	D&B
		Ni	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO$_3$ digestion; FAAS	±12%	NS	0.83 - 1.11	0.99	1.02	2	D&B
		Co	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO$_3$ digestion; FAAS	±12%	NS	0.32 - 0.68	0.48	0.41	2	D&B
		Cu	mmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO$_3$ digestion; FAAS	±12%	NS	0.68 - 1.10	0.91	0.94	2	D&B
		Rb	µmol kg^{-1}	3	3	3	short cores (length unspecified)	NS	HF/HNO$_3$ digestion; fluorometry	±12%	NS	3.1 - 18.9	9.7	7.3	2	D&B
72-0003	ATMOSPHERE	SPM	µg m^{-3}	4	6	1	NS	NS	Filtration (fibreglass filter)	NS	NS	-	6	-	2	NPG
		Sulphation Index	µmol m^{-2} d^{-1}	7	15	10	sulphation	NS	NS	NS	NS	< 1.75 - 107.4	15.5	2.62	2	
		Dustfall	tonne-km^{-2}-month^{-1}	5	12	12	NS	NS	Filtration (fibreglass paper; ASTM D1739-70)	NS	NS	0.016 - 10.16	1.78	0.23	2	insoluble solids
		Ozone	nmol m^{-3}	3	16	16	1 mm impingers in absorbing solution	NS	Alkaline KI method (ASTM D1609-60)	NS	NS	< 13.4 - 759	261	228	2	
		NO$_2$	nmol m^{-3}	3	16	4	1 mm impingers in absorbing solution	NS	Alkyl thiazo dye method	NS	NS	< 26.8 - 223	44.6	-	2	
		SO$_2$	nmol m^{-3}	3	11	1	1 mm impingers in absorbing solution	NS	chloromercury method (ASTM D2914-70T)	NS	NS	< 26.8 - 223	44.6	-	2	
		H$_2$S	nmol m^{-3}	3	13	7	1 mm impingers in absorbing solution	NS	Methylene blue method	NS	NS	< 13.6 - 646	219	40.2	2	methane and non-methane HC
		HC as methane	nmol m^{-3}	5	11	7	pre-purged Mylar and Teflon bags	at 34°F until analyzed	GC (FID) (ASTM D2820-69T)	NS	NS	< d.l. - 108	79.7	58.0	2	
	SEA WATER	TOC	mol m^{-3}	4	7	7	NS	NS	IR analyzer; (APHA-138)	NS	NS	0.583 - 0.917	0.725	0.667	2	
		HC	g m^{-3}	4	7	2	NS	NS	Ether extraction; gravimetry (APHA-137)	NS	NS	d.l. - 2.0	1.7	-	2	
		SO$_4$	mol m^{-3}	4	7	7	NS	NS	Precipitation as BaSO$_4$; gravimetry (APHA 122B)	NS	NS	0.342 - 20.20	3.45	0.385	2	
		TH as CaCO$_3$	mol m^{-3}	4	7	7	NS	NS	EDTA titration; (APHA 122B)	NS	NS	1.20 - 43.96	7.41	1.30	2	
		Ca as CaCO$_3$	mol m^{-3}	4	7	7	NS	NS	EDTA titration (APHA 122B)	NS	NS	0.819 -1.09	1.77	0.919	2	
		Mg as CaCO$_3$	mol m^{-3}	4	7	7	NS	NS	Calculated from Ca, TH	NS	NS	0.330 - 36.97	5.66	0.370	2	
		Alk$_t$ as CaCO$_3$	mol m^{-3}	4	7	7	NS	NS	APHA 102	NS	NS	0.14 - 1.12	1.01	0.99	2	
		pH	pH units	4	7	7	NS	NS	pH meter (APHA 144A)	NS	NS	8.0 - 8.3	8.1	8.1	2	
		Turbidity	g m^{-3}	4	7	7	NS	NS	Jackson candle turbidimeter (APHA 114A)	NS	NS	65.0 - 490.0	153.1	92.0	2	
		Cl	mol m^{-3}	4	7	7	NS	NS	Titration with AgNO$_3$ (APHA 114A)	NS	NS	0.197 - 366.7	57.7	0.197	2	

SET NO.	SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
72 0003 (cont'd)	**SOIL**	Hg	µmol kg^{-1}	2	12		NS	NS	Acid digestion; CVAAS	NS	NS	0.100 - 0.299	0.199	0.249	2	
		Pb	mmol kg^{-1}	2	12	12	NS	NS	AAS	NS	NS	0.087 - 0.110	0.101	0.104	2	
		S	mmol kg^{-1}	2	12	12	NS	NS	Oxidized; precipitated as $BaSO_4$	NS	NS	31.2 - 46.8	37.4	34.3	2	
		Cu	mmol kg^{-1}	2	12	12	NS	NS	AAS	NS	NS	0.315 - 0.433	0.387	0.387	2	
		Cd	µmol kg^{-1}	2	12	12	NS	NS	AAS	NS	NS	8.90 - 13.34	11.56	11.56	2	
	BIOTA (Plant Tissue)	Hg	µmol kg^{-1}	2	12	12	NS	NS	Acid digestion; CVAAS	NS	NS	0.050 - 0.150	0.062	0.050	2	
		Pb	mmol kg^{-1}	2	12	12	NS	NS	AAS	NS	NS	0.014 - 0.043	0.023	0.020	2	
		Cd	µmol kg^{-1}	2	12	12	NS	NS	AAS	NS	NS	4.45 - 9.90	6.60	7.12	2	
		Cu	mmol kg^{-1}	2	12	12	NS	NS	AAS	NS	NS	0.107 - 0.138	0.201	0.118	2	
		S	mmol kg^{-1}	2		12	NS	NS	Oxidized; precipitated as $BaSO_4$	NS	NS	34.3 - 59.3	49.1	51.5	2	
	BIOTA (Bird and Small Mammal Tissue)	Cu	mmol kg^{-1}	12	36	36	NS	NS	AAS	NS	NS	0.055 - 0.164	0.100	0.095	2	
		Cd	µmol kg^{-1}	12	36	36	NS	NS	AAS	NS	NS	0.89 - 3.56	2.13	1.78	2	
		Pb	µmol kg^{-1}	12	36	36	NS	NS	AAS	NS	NS	0.193 - 13.65	6.84	4.58	2	
		Hg	µmol kg^{-1}	12	36	35	NS	NS	Acid digestion; CVAAS	NS	NS	0.499 - 17.45	3.33	2.49	2	
	BIOTA (Fish)	Cu	mmol kg^{-1}	2	8	8	NS	NS	AAS	NS	NS	0.008 - 0.020	0.013	0.012	2	
		Cd	µmol kg^{-1}	2	8	8	NS	NS	AAS	NS	NS	0.18 - 0.71	0.41	0.41	2	
		Pb	mmol kg^{-1}	2	8	8	NS	NS	AAS	NS	NS	0.96 - 16.41	6.27	4.34	2	
		Hg	µmol kg^{-1}	2	8	8	NS	NS	CVAAS	NS	NS	0.50 - 3.99	1.06	0.50	2	
72-0004A	**SEA WATER**	O_2	mol m^{-3}	1	6	6	NS	NS	Modified WT	NS	NS	0.35 - 0.37	0.36	0.36	2	
		PO_4	mmol m^{-3}	1	7	7	NS	NS	S & P	NS	NS	0.12 - 0.16	0.14	0.14	2	
		NO_3	mmol m^{-3}	1	7	7	NS	NS	S & P	NS	NS	4.5 - 4.9	4.7	4.8	2	
		Si	mmol m^{-3}	1	7	7	NS	NS	S & P	NS	NS	4.2 - 6.1	4.8	4.5	0	Note 3
		Chl a	mg m^{-3}	1	7	7	NS	NS	S & P	NS	NS	0.04 - 1.86	0.54	0.29	2	
		POC	mg m^{-3}	1	6	5	NS	NS	S & P	NS	NS	0 - 46	10.2	2	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
72-0004A (cont'd)	ICE CORE	PO_4	mmol m^{-3}	1	2	2	NS	NS	S & P	NS	NS	0.29 - 0.39	0.36	0.36	2	
		NO_3	mmol m^{-3}	1	2	2	NS	NS	S & P	NS	NS	0.9 - 1.1	1.0	1.0	2	
		Si	mmol m^{-3}	1	1	1	NS	NS	S & P	NS	NS	-	0.9	-	0	Note 3
		Chl a	mg m^{-3}	1	1	1	NS	NS	S & P	NS	NS	-	3.14	-	2	
		POC	mg m^{-3}	1	1	1	NS	NS	S & P	NS	NS	-	110	-	2	
72-0004B	SEA WATER	O_2	mol m^{-3}	13	160	160	NS	NS	Modified WT	NS	NS	0.21 - 0.48	0.35	0.35	2	
		PO_4	mmol m^{-3}	13	147	79	NS	NS	S & P	NS	NS	0.00 - 1.13	0.04	0.04	2	
		NO_2	mmol m^{-3}	13	133	74	NS	NS	S & P	NS	NS	0.00 - 0.17	0.03	0.03	2	
		NO_3	mmol m^{-3}	13	156	137	NS	NS	S & P	NS	NS	0.00 - 11.50	1.14	1.14	2	
		Si	mmol m^{-3}	13	147	147	NS	NS	S & P	NS	NS	1.38 - 48.00	5.36	5.36	2	
		Chl a	mg m^{-3}	13	154	154	NS	NS	S & P	NS	NS	0.11 - 3.79	1.29	1.29	2	
		POC	mg m^{-3}	13	152	126	NS	NS	S & P	NS	NS	0 - 86	19.9	19.9	2	
		pH	pH units	13	32	32	NS	NS	NS	NS	NS	7.50 - 8.10	7.84	7.80	2	
	ICE CORE	PO_4	mmol m^{-3}	1	5	5	NS	NS	S & P	NS	NS	0.08 - 1.92	0.60	0.32	2	
		NO_3	mmol m^{-3}	1	6	6	NS	NS	S & P	NS	NS	0.2 - 3.0	0.83	0.45	2	
		Si	mmol m^{-3}	1	6	6	NS	NS	S & P	NS	NS	1.0 - 3.5	2.4	2.6	2	
		Chl a	mg m^{-3}	1	6	5	NS	NS	S & P	NS	NS	0.00 - 5.95	2.62	2.38	2	
72-0004C	SEA WATER	PO_4	mmol m^{-3}	1	7	3	NS	NS	S & P	NS	NS	0.00 - 0.08	0.02	0.00	2	
		NO_2	mmol m^{-3}	1	7	7	NS	NS	S & P	NS	NS	0.09 - 0.17	0.11	0.10	2	
		NO_3	mmol m^{-3}	1	7	7	NS	NS	S & P	NS	NS	2.6 - 2.7	2.61	2.6	2	
		Si	mmol m^{-3}	1	7	7	NS	NS	S & P	NS	NS	1.61 - 2.58	2.16	2.26	2	
		Chl a	mg m^{-3}	1	6	6	NS	NS	S & P	NS	NS	0.13 - 0.22	0.19	0.18	2	
		POC	mg m^{-3}	1	7	7	NS	NS	S & P	NS	NS	37 - 72	52	51	2	
		pH	pH units	1	8	8	NS	NS	NS	NS	NS	7.60 - 7.70	7.68	7.70	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
73-0001	SEA WATER	pH	pH units	7	7	7	NS	NS	Hach Kit Model AL-36B	NS	NS	7.8 - 8.3	8.0	8.1	2	
		HCO_3	mol m^{-3}	7	7	7	NS	NS	Hach Kit Model AL-36B	NS	NS	1.72 - 1.97	1.80	1.79	2	
		CO_3	mmol m^{-3}	7	7	1	NS	NS	Hach Kit Model AL-36B	NS	NS	-	33	-	2	
		Ca	mol m^{-3}	7	7	7	NS	NS	NS	NS	NS	0.83 - 1.03	0.90	0.83	2	
		Mg	mol m^{-3}	7	7	7	NS	NS	NS	NS	NS	0.41 - 1.65	0.62	0.41	2	
		O_2	mol m^{-3}	3	3	3	NS	NS	Hach Kit Model AL-36B	NS	NS	0.406 - 0.500	0.438	0.438	2	
73-0002	SEA WATER	O_2	mol m^{-3}	17	67	67	NS	NS	WT	NS	NS	0.299 - 0.473	0.366	0.362	2	
		PO_4	mmol m^{-3}	17	63	59	NS	NS	S & P	NS	NS	0.00 - 1.49	0.50	0.42	2	
		NO_2	mmol m^{-3}	17	68	17	NS	NS	S & P	NS	NS	0.00 - 0.14	0.02	0.00	2	
		Si	mmol m^{-3}	17	66	66	NS	NS	S & P	NS	NS	2.8 - 38.9	19.4	19.2	2, 0	Note 3
		Chl a	mg m^{-3}	17	58	56	NS	NS	S & P	NS	NS	0.00 - 3.24	1.28	1.40	2	
		POC	mg m^{-3}	17	42	42	NS	NS	S & P	NS	NS	82 - 514	201	182	2	
73-0003A	SEA WATER	O_2	mol m^{-3}	2	23	23	NS	NS	Modified WT	NS	NS	0.26 - 0.41	0.33	0.35	2	
		PO_4	mmol m^{-3}	1	7	6	NS	NS	S & P	NS	NS	0.00 - 0.13	0.07	0.09	2	
		NO_2	mmol m^{-3}	1	7	2	NS	NS	S & P	NS	NS	0.00 - 0.04	0.007	0.00	2	
		NO_3	mmol m^{-3}	3	23	23	NS	NS	S & P	NS	NS	1.2 - 5.5	4.0	4.3	2	
		Si	mmol m^{-3}	3	23	23	NS	NS	S & P	NS	NS	2.1 - 12.2	7.6	7.9	2, 0	Note 3
		Chl a	mg m^{-3}	3	23	17	NS	NS	S & P	NS	NS	0.00 - 0.81	0.22	0.12	2	
		POC	mg m^{-3}	3	23	5	NS	NS	S & P	NS	NS	0 - 10	0.9	0	2	
		pH	pH units	3	17	17	NS	NS	NS	NS	NS	7.70 - 8.05	7.84	7.80	2	
	ICE CORE	PO_4	mmol m^{-3}	1	6	5	NS	NS	S & P	NS	NS	0.00 - 1.04	0.29	0.18	2	
		NO_2	mmol m^{-3}	1	5	4	NS	NS	S & P	NS	NS	0.00 - 0.05	0.03	0.02	2	
		NO_3	mmol m^{-3}	2	11	11	NS	NS	S & P	NS	NS	0.2 - 1.9	0.7	0.5	2	
		Si	mmol m^{-3}	2	11	11	NS	NS	S & P	NS	NS	0.0 - 7.4	1.6	1.1	0	Note 3
		Chl a	mg m^{-3}	2	11	11	NS	NS	S & P	NS	NS	0.23 - 57.02	5.78	0.60	2	
		POC	mg m^{-3}	2	11	11	NS	NS	S & P	NS	NS	21 - 169	92	95	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
72-0004C (cont'd)	ICE CORE	PO_4	mmol m^{-3}	1	2	2	NS	NS	S & P	NS	NS	0.17 - 0.19	0.18	0.18	2	
		NO_2	mmol m^{-3}	1	2	1	NS	NS	S & P	NS	NS	0.00 - 0.30	0.15	0.15	2	
		NO_3	mmol m^{-3}	1	2	2	NS	NS	S & P	NS	NS	0.3 - 0.7	0.5	0.5	2	
		Si	mmol m^{-3}	1	2	2	NS	NS	S & P	NS	NS	0.1 - 0.3	0.2	0.2	0	Note 3
		Chl a	mg m^{-3}	1	2	2	NS	NS	S & P	NS	NS	0.00 - 1.18	0.59	0.59	2	
		POC	mg m^{-3}	1	2	2	NS	NS	S & P	NS	NS	48 - 119	84	84	2	
72-0005	BIOTA (Beluga whale tissue)	p,p'-DDE	µmol kg^{-1}	2	7	7	native hunting camps	some in 10% formalin; some on ice then frozen	Florisil column clean up; GLC	±37%	NS	1.76 - 4.18	2.63	2.30	2	Note 4; WWB; results for liver, muscle and blubber tissue on pooled samples
		p,p'-DDD	µmol kg^{-1}	2	7	7	native hunting camps	some in 10% formalin; some on ice then frozen	Florisil column clean up; GLC	±38%	NS	-	trace	-	2	
		p,p'-DDT	µmol kg^{-1}	2	7	7	native hunting camps	some in 10% formalin; some on ice then frozen	Florisil column clean up; GLC	±47%	NS	0.59 - 3.58	1.88	1.69	2	
		o,p'-DDT	µmol kg^{-1}	2	7	[illegible]	native hunting camps	some in 10% formalin; some on ice then frozen	Florisil column clean up; GLC	±35%	NS	2.34 - 3.58	2.96		2	
72-0006	RIVER WATER	O_2	mol m^{-3}	18	36	36	NS	NS	Hach Kit Model AL-36B	NS	NS	0.281 - 0.375	0.316	0.313	2	
		pH	pH units	18	36	36	NS	NS	Hach Kit Model AL-36B	NS	NS	7.5 - 9	8.0	8	2	
		Alk as $CaCO_3$	mol m^{-3}	18	36	36	NS	NS	Hach Kit Model AL-36B	NS	NS	0.05 - 0.26	0.14	0.14	2	
		TH as $CaCO_3$	mol m^{-3}	18	36	36	NS	NS	Hach Kit Model AL-36B	NS	NS	0.05 - 0.15	0.13	0.14	2	
72-0007	SEA WATER	O_2	mol m^{-3}	33	68	68	NS	NS	Hach Kit Model AL-36B	NS	NS	0.250 - 0.406	0.313	0.313	2	SFC samples only
		CO_2	mol m^{-3}	33	39	39	NS	NS	Hach Kit Model AL-36B	NS	NS	0.114 - 0.341	0.205	0.227	2	SFC samples only
		pH	pH units	33	70	70	NS	NS	Hach Kit Model AL-36B	NS	NS	8.0 - 8.5	8.3	8.5	2	SFC samples only
		HCO_3	(eq. m^{-3})	33	68	68	NS	NS	Hach Kit Model AL-36B	NS	NS	0.855 - 1.369	1.12	1.12	2	SFC samples only
		TH as $CaCO_3$	g m^{-3}	33	53	53	NS	NS	Hach Kit Model AL-36B	NS	NS	103 - 599	156	137	2	SFC samples only
		SPM as SiO_2	g m^{-3}	13	39	39	Van Dorn bottle	NS	Hellige turbidimeter	NS	NS	18 - <110	60.5	60	2	6 samples exceeded max. reading

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
72-0008	BIOTA	PCB	mg kg^{-1}	1	12	12	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.003 - 1.93	0.42	0.082	2	WWB, Note 4
		PCB	mg kg^{-1}	1	12	12	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.079 - 2.18	0.86	0.576	2	lipid weight
		p,p'-DDE	μmol kg^{-1}	1	12	12	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.009 - 1.65	0.82	0.24	2	WWB, Note 4
		p,p'-DDE	μmol kg^{-1}	1	12	12	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.409 - 2.30	1.45	1.03	2	lipid weight
		p,p'-DDT	μmol kg^{-1}	1	12	12	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.003 - 1.70	0.82	0.17	2	WWB, Note 4
		p,p'-DDT	μmol kg^{-1}	1	12	12	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.110 - 1.92	1.25	0.85	2	lipid weight
		o,p'-DDT	μmol kg^{-1}	1	12	6	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.003 - 0.468	0.133	0.079	2	WWB, Note 4
		o,p'-DDT	μmol kg^{-1}	1	12	6	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.144 - 0.519	0.262	0.175	2	lipid weight
		p,p'-DDD	μmol kg^{-1}	1	12	7	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.003 - 0.297	0.066	0.016	2	WWB, Note 4
		p,p'-DDD	μmol kg^{-1}	1	12	7	animals hunted and killed by man and polar bear	wrapped in Al foil, frozen and stored at -20°C	EC-GC (exact details well documented)	NS	NS	0.113 - 0.863	0.353	0.303	2	lipid weight
72-0014	BIOTA															
	Ringed seal	Hg	μmol kg^{-1}	NS	80	80	hunted	frozen	NS	NS	NS	NS	70.40	NS	2	WWB, Note 4; NPG
		Me-Hg	μmol kg^{-1}	NS	46	46		frozen	NS	NS	NS	NS	4.69	NS	2	WWB, Note 4; NPG
	Bearded seal	Hg	μmol kg^{-1}	NS	9	9	hunted	frozen	NS	NS	NS	NS	4.77	NS	2	WWB, Note 4; NPG
		Me-Hg	μmol kg^{-1}	NS	6	6		frozen	NS	NS	NS	NS	1.50	NS	2	WWB, Note 4; NPG
	Arctic char	Hg	μmol kg^{-1}	NS	12	12	NS	frozen	NS	NS	NS	NS	0.24	NS	2	WWB, Note 4; NPG
72-0019	BIOTA (Seals)	Hg	μmol kg^{-1}	4	313	313	NS	frozen	NS	NS	NS	1.15 - 713.57	96.91	59.38		WWB, Note 4; NPG
		MeHg	μmol kg^{-1}	3	61	61	NS	frozen	NS	NS	NS	1.19 - 4.45	4.06	4.13		WWB, Note 4
		Se	mmol kg^{-1}	3	160	160	NS	frozen	NS	NS	NS	0.19 - 0.44	0.20	0.19		WWB, Note 4; pooled data from samples taken in 1972, 1973 and 1977

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
73-0003B	SEA WATER	O$_2$	mol m^{-3}	15	97	97	NS	NS	WT	NS	NS	0.236 - 0.518	0.384	0.383	2	
		PO$_4$	mmol m^{-3}	18	154	67	NS	NS	S & P	NS	NS	0.00 - 0.17	0.02	0.01	2	
		NO$_2$	mmol m^{-3}	18	131	128	NS	NS	S & P	NS	NS	0.00 - 0.13	0.05	0.06	2	
		NO$_3$	mmol m^{-3}	18	139	138	NS	NS	S & P	NS	NS	0.0 - 7.4	1.5	0.6	2	
		Si	mmol m^{-3}	18	135	135	NS	NS	S & P	NS	NS	1.0 - 21.6	6.2	4.1	2, 0	Note 3
		Chl a	mg m^{-3}	18	134	134	NS	NS	S & P	NS	NS	0.00 - 2.32	0.82	0.62	2	
		POC	mg m^{-3}	12	86	75	NS	NS	S & P	NS	NS	0 - 106	24	24	2	
		pH	pH units	18	56	56	NS	NS	NS	NS	NS	7.55 - 8.40	7.87	7.81	2	
73-0003D	SEA WATER	O$_2$	mol m^{-3}	2	16	16	NS	NS	YSI oxygen analyzer	NS	NS	0.279 0.333	0.326	0.329	2	
		PO$_4$	mmol m^{-3}	2	16	2	NS	NS	S & P	NS	NS	0.00 - 0.06	0.005	0.00	2	
		NO$_2$	mmol m^{-3}	2	16	14	NS	NS	S & P	NS	NS	0.00 - 0.10	0.03	0.03	2	
		NO$_3$	mmol m^{-3}	2	16	16	NS	NS	S & P	NS	NS	0.6 - 5.7	1.4	1.0	2	
		Si	mmol m^{-3}	2	16	16	NS	NS	S & P	NS	NS	5.7 - 19.5	9.4	8.0	2	Note 3
		Chl a	mg m^{-3}	2	16	15	NS	NS	S & P	NS	NS	0.00 - 0.93	0.48	0.46	2	
		POC	mg m^{-3}	2	15	15	NS	NS	S & P	NS	NS	12 - 174	42	27	2	
		pH	pH units	2	15	15	NS	NS	NS	NS	NS	7.60 - 8.10	7.83	7.79	2	
74-0001	SEA WATER	Si	mmol m^{-3}	11	10	10	Kemmerer bottle	NS	NS	NS	NS	10.7 - 37.4	24.8	27.1	2	
		PO$_4$	mmol m^{-3}	11	10	0	Kemmerer bottle	NS	NS	NS	NS	-	< 3.2	-	0	Note 2
		NO$_3$	mmol m^{-3}	11	10	2	Kemmerer bottle	NS	NS	NS	NS	< 7.1 - 7.9	7.26	< 7.1	2	
		pH	pH units	11	7	7	Kemmerer bottle	NS	Hach Kit Model AL-36B	NS	NS	7.50 8.25	8.06	8.20	2	
		HCO$_3$	mol m^{-3}	11	7	7	Kemmerer bottle	NS	Hach Kit Model AL-36B	NS	NS	3.59 - 2.59	2.51	2.13	2	
		CO$_3$	mmol m^{-3}	11	7	4	Kemmerer bottle		Hach Kit Model AL-36B	NS	NS	0 - 41.7	13.3	16.7	2	
		Ca	mol m^{-3}	11	7	7	Kemmerer bottle	NS	NS	NS	NS	0.90 - 7.36	2.61	1.15	2	
		Mg	mol m^{-3}	11	7	7	Kemmerer bottle	NS	NS	NS	NS	0.44 - 41.14	11.97	1.59	2	
		Hardness	ppm	11	7	7	Kemmerer bottle	NS	calculated	NS	NS	134 - 4897	1461	280	2	
		SPM	g m^{-3}	20	7	7	Kemmerer bottle	NS	NS	NS	NS	6 - 104	36.9	20	2	
		O$_2$	mol m^{-3}	20	29	7	Kemmerer bottle	NS	YSI DO Meter	NS	NS	0.413 - >0.469	0.459	>0.469	2	
		Turbidity (SiO$_2$)	g m^{-3}	20	7	7	Kemmerer bottle	NS	NS	NS	NS	3.3 - 22.0	8.1	6.7	2	
	BOTTOM SEDIMENT	TKN	g kg^{-1}	18	18	18	Ekman Dredge	NS	NS	NS	NS	0.17 - 1.68	1.26	1.35	2	
		Tc	g kg^{-1}	18	18	18	Ekman Dredge	NS	NS	NS	NS	5.8 - 35.3	25.4	26.3	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
74-0003	SEA WATER	O_2	mol m^{-3}	53	181	181	1 L PVC bottles	NS	Hach Kit Model AL-36B	NS	NS	0.156 - 0.406	0.300	0.309	0	approx. values only
		pH	pH units	53	156	156	NS	NS	Hach Kit Model AL-36B	NS	NS	7.5 - 9.0	8.5	8.5	0	approx. values only
		Alk as $CaCO_3$	mol m^{-3}	53	134	134	NS	NS	Hach Kit Model AL-36B	NS	NS	0.086 - 1.88	1.21	1.20	0	approx. values only
		Hardness $CaCO_3$	mol m^{-3}	53	135	135	NS	NS	Hach Kit Model AL-36B	NS	NS	1.20 - < 10.27	1.37	2.16	0	approx. values only
		Settleable Solids	L m^{-3}	24	43	43	1 L PVC bottles	NS	Imhoff Core	NS	NS	0 - 2.50	0.145	0.10	2	
		Turbidity as SiO_2	g m^{-3}	51	191	191	1 L PVC bottles	NS	Hellige Model 7000 turbidity meter	NS	NS	5 - 750	249.5	159	2	
		Si	mmol m^{-3}	24	43	43	1 L PVC bottles	frozen unfiltered	Filtration (0.45 µm) prior to analysis; APHA method	NS	NS	15.6 - 35.8	26.7	26.5	2	
		NO_3	mmol m^{-3}	24	43	36	1 L PVC bottles	frozen unfiltered	Filtration (0.45 µm) prior to analysis; APHA method	NS	NS	< 7.1 - 72.2	19.9	15.1	2	
		PO_4	mmol m^{-3}	24	43	26	1 L PVC bottles	frozen unfiltered	Filtration (0.45 µm) prior to analysis; APHA method	NS	NS	< 1.05 - 2.11	1.64	1.57	2	
		Ca	mol m^{-3}	24	43	43	1 L PVC bottles	frozen unfiltered	Filtration (0.45 µm) prior to analysis; FAAS	NS	NS	0.52 - 1.65	0.76	0.70	2	
		Mg	mol m^{-3}	24	43	43	1 L PVC bottles	frozen unfiltered	Filtration (0.45 µm) prior to analysis; FAAS	NS	NS	0.31 - 6.81	1.00	0.32	2	
		Cr	µmol m^{-3}	24	43	0	1 L PVC bottles	acidified with HNO_3; frozen	AAS	NS	NS	-	< 57.7		0	Note 2
		Pb	µmol m^{-3}	24	43	36	1 L PVC bottles	acidified with HNO_3; frozen	AAS	NS	NS	< 4.8 - 24.1	4.8	9.1	0	Note 2
		Cd	µmol m^{-3}	24	43	15	1 L PVC bottles	acidified with HNO_3; frozen	AAS	NS	NS	< 8.9 - 16.2	8.9	8.9	0	Note 2
		Ni	µmol m^{-3}	24	43	31	1 L PVC bottles	acidified with HNO_3; frozen	AAS	NS	NS	< 17.0 - 133.3	34.0	39.1	0	Note 2
		SPM	g m^{-3}	24	43	43	1 L PVC bottles	frozen unfiltered	Filtration (0.45 µm); gravimetry	NS	NS	19.8 - 966.3	250.5	162.8	2	
		Chl. a	mg m^{-3}	15	18	14	1 L PVC bottles	NS	S & P	NS	NS	0.068 - 1.050	0.549	0.776	2	
74-0007A	SEA WATER	O_2	mol m^{-3}	24	102	102	NS	NS	WT	NS	NS	0.268 - 0.482	0.379	0.394	2	
		NO_3	mmol m^{-3}	24	182	170	NS	NS	S & P	NS	NS	0.0 - 15.6	3.2	2.4	2	
		NO_2	mmol m^{-3}	24	181	155	NS	NS	S & P	NS	NS	0.00 - 0.22	0.05	0.05	2	
		Si	mmol m^{-3}	24	182	182	NS	NS	S & P	NS	NS	0.1 - 44.4	16.7	14.3	2, 0	Note 3
		PO_4	mmol m^{-3}	24	182	132N	NS	NS	S & P	NS	NS	0.00 - 1.68	0.47	0.66	2	
		Chl. a	mg m^{-3}	24	108	97	NS	NS	S & P	NS	NS	0.00 - 3.67	0.50	0.18	2	
		POC	mg m^{-3}	24	32	32	NS	NS	S & P	NS	NS	3 - 85	37	35	2	
74-0007B	SEA WATER	PO_4	mmol m^{-3}	1	2	1	NS	NS	S & P	NS	NS	0.00, 0.008		0.04	0.04	2
		NO_3	mmol m^{-3}	1	2	2	NS	NS	S & P	NS	NS	5.1, 7.5			6.3	6.3
		Si	mmol m^{-3}	1	2	2	NS	NS	S & P	NS	NS	65.9, 38.2			52.0	52.0

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
74-0008	SEA WATER	O_2	mol m^{-3}	24	264	264	Niskin PVC sampler	Winkler flask + $MnCl_2$ + NaI	Micro WT on board ship within 1 d of collection	±0.0002	±0.0005	0.268 - 0.482	0.366	0.379	4	
		CH_4	μmol m^{-3}	19	32	32	5L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	< 2.8%	ca ±2.82%	3.21 - 27.54	10.36	7.66	4	
		C_2H_4	nmol m^{-3}	19	33	33	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	< 4.2%	ca ±4.2%	6.2 - 85.7	35.2	31.3	4	
		C_3H_8	nmol m^{-3}	19	33	33	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	< 6.8%	ca ±6.8%	0.89 - 41.07	7.81	6.47	4	
		C_3H_6	nmol m^{-3}	19	33	33	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	< 4.7%	ca ±4.7%	4.02 - 70.98	26.34	24.33	4	
		nC_4H_{10}	nmol m^{-3}	19	32	32	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	< 34%	ca ±34%	0.54 - 11.33	2.02	1.56	2	
		PO_4	mmol m^{-3}	24	285	273	Niskin PVC sampler	frozen in glass vials	Technicon Method 158-71W; AuA	± 0.3%	± 5%	0.00 - 1.85	0.66	0.95	4	
		NO_3	mmol m^{-3}	24	287	260	Niskin PVC sampler	frozen in glass vials	Technicon Method 186-72W; AuA	± 0.4%	± 4%	0.0 - 16.0	4.76	4.0	4	
		Si	mmol m^{-3}	24	178	178	Niskin PVC sampler	frozen in plastic vials	Technicon Method 155-71W; AuA	± 0.3%	±5%	3 - 39	17.5	16.0	4, 0	Note 3
		Alk_t	meq kg^{-1}	NS	8	8	Niskin PVC sampler	glass bottle + $HgCl_2$	NS	NS	NS	2.242 - 2.296	2.271	2.278	2	
		CO_2	mmol kg^{-1}	NS	8	8	Niskin PVC sampler	glass bottle + $HgCl_2$	NS	NS	NS	2.141 - 2.383	2.186	2.157	2	
	BOTTOM SEDIMENT	PAH	μg kg^{-1}	15	15	15	steel pipe dredge	frozen	NS	NS	NS	236 - 920	525	520	2	WWB, Note 4
		non-polar HC-total	mg kg^{-1}	14	14	14	steel pipe dredge	frozen	NS	NS	NS	18.4 - 137.7	82.4	76.5	2	DWB
74-0009	MACKENZIE DELTA (Lake and Channel Water)	O_2	mol m^{-3}	5	10	10	in situ	N/A	YSI meter	NS	NS	0.44 - 0.47	0.46	0.47	2	
		pH	pH units	5	17	17	Kemmerer bottle	NS	pH meter	NS	NS	7.30 - 8.30	8.03	8.10	2	
		SO_4	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	0.270 - 0.663	0.389	0.381	2	
		Cl	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	0.197 - 0.367	0.285	0.310	2	
		HCO_3	mmol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	1.18 - 2.21	1.99	2.03	2	
		CO_3	mmol m^{-3}	5	17	6	Kemmerer bottle	frozen	APHA	NS	NS	d.l. - 0.017	-	-	2	
		Ca as $CaCO_3$	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	0.270 - 0.903	0.806	0.848	2	
		Mg as $CaCO_3$	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	0.317 - 0.485	0.428	0.419	2	
		TH as $CaCO_3$	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	0.586 - 1.309	1.242	1.296	2	
		TC	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	2.25 - 2.91	2.26	2.50	2	
		TOC	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	0.343 - 1.08	0.74	0.83	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
		TIC	mol m^{-3}	5	17	17	Kemmerer bottle	frozen	APHA	NS	NS	1.25 - 2.06	1.76	1.75	2	
		SPM	g m^{-3}	5	14	14	Kemmerer bottle	frozen	APHA (0.45 µm)	NS	NS	1.2 - 6.4	4.0	4.0	2	
		BOD	mol m^{-3}	5	10	10	Kemmerer bottle	Winkler bottle	APHA	NS	NS	0.031 - 1.041	0.484	0.518	2	
		COD	mol m^{-3}	5	8	8	Kemmerer bottle	Winkler bottle	APHA	NS	NS	0.125 - 0.750	0.360	0.313	2	
74-0010A	SEA WATER	O_2	mol m^{-3}	2	30	30	NS	NS	Modified WT	NS	NS	0.32 - 0.43	0.37	0.37	2	
		PO_4	mmol m^{-3}	2	30	28	NS	NS	S & P	NS	NS	0.00 - 0.47	0.18	0.17	2	
		NO_2	mmol m^{-3}	2	30	22	NS	NS	S & P	NS	NS	0.00 - 0.17	0.06	0.06	2	
		NO_3	mmol m^{-3}	2	28	26	NS	NS	S & P	NS	NS	0.0 - 4.9	2.7	3.1	2	
		Si	mmol m^{-3}	2	30	30	NS	NS	S & P	NS	NS	6.5 - 25.3	13.2	12.8	0	Note 3
		Chl a	mg m^{-3}	2	29	28	NS	NS	S & P	NS	NS	0.00 - 2.59	0.54	0.27	2	
		POC	mg m^{-3}	2	18	17	NS	NS	S & P	NS	NS	0 - 86	32	35	2	
		pH	pH units	2	9	9	NS	NS	NS	NS	NS	7.72 - 8.05	7.84	7.82	2	
	ICE CORE	PO_4	mmol m^{-3}	2	13	13	NS	NS	S & P	NS	NS	0.04 - 0.90	0.18	0.12	2	
		NO_2	mmol m^{-3}	2	13	12	NS	NS	S & P	NS	NS	0.00 - 0.14	0.07	0.06	2	
		NO_3	mmol m^{-3}	2	6	6	NS	NS	S & P	NS	NS	0.4 - 0.8	0.6	0.65	2	
		Si	mmol m^{-3}	2	13	13	NS	NS	S & P	NS	NS	0.6 - 5	1.8	1.7	0	Note 3
		Chl a	mg m^{-3}	2	13	11	NS	NS	S & P	NS	NS	0.00 - 22.28	1.92	0.23	2	
		POC	mg m^{-3}	2	13	13	NS	NS	S & P	NS	NS	12 - 157	58	48	2	
74-0010B	SEA WATER	O_2	mol m^{-3}	1	8	8	NS	NS	WT	NS	NS	0.259 - 0.438	0.347	0.333	2	
		PO_4	mmol m^{-3}	1	8	8	NS	NS	S & P	NS	NS	0.02 - 0.14	0.10	0.11	2	
		NO_2	mmol m^{-3}	1	8	4	NS	NS	S & P	NS	NS	0.00 - 0.07	0.02	0.01	2	
		NO_3	mmol m^{-3}	1	8	4	NS	NS	S & P	NS	NS	0.0 - 0.2	0.06	0.05	2	
		Si	mmol m^{-3}	1	8	8	NS	NS	S & P	NS	NS	2.3 - 19.1	9.5	9.5	0	Note 3
74-0010C	SEA WATER	O_2	mol m^{-3}	30	183	183	NS	NS	WT	NS	NS	0.295 - 0.470	0.370	0.367	2	
		PO_4	mmol m^{-3}	27	185	103	NS	NS	S & P	NS	NS	0.00 - 0.23	0.03	0.02	2	
		NO_2	mmol m^{-3}	28	185	141	NS	NS	S & P	NS	NS	0.00 - 0.25	0.03	0.03	2	
		NO_3	mmol m^{-3}	28	185	152	NS	NS	S & P	NS	NS	0.00 - 7.20	1.37	0.7	2	
		Si	mmol m^{-3}	28	185	185	NS	NS	S & P	NS	NS	2.0 - 28.7	9.8	7.9	0	Note 3
		Chl a	mg m^{-3}	28	184	176	NS	NS	S & P	NS	NS	0.00 - 3.04	0.51	0.46	2	
		POC	mg m^{-3}	9	72	70	NS	NS	S & P	NS	NS	0 - 86	25	22	2	
74-0011	SEA WATER	O_2	mol m^{-3}	2	16	16	NS	NS	Hach Kit	NS	± 0.016	0.250 - 0.419	0.356	0.375	2	NPG; accuracies given are theoretical only
		pH	pH units	2	23	23	NS	NSA	pH meter	NS	± 0.1	7.7 - 8.8	8.0	7.9	2	
		TDN	mmol m^{-3}	2	11	10	NS	NS	S & P	NS	± 0.36	0.0 - 14.0	7.6	8.2	2	
		TDP	mmol m^{-3}	2	13	6	NS	NS	Spectrophotometry APHA 223C	NS	± 0.16	0.0 - 3.81	0.60	0.0	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
74-0011 (cont'd)		Si	mmol m^{-3}	2	11	11	NS	NS	S & P	NS	± 3.6	19.6 - 37.0	26.8	25.3	2	
		Ca	mol m^{-3}	2	13	13	NS	NS	AAS	NS	± 0.0025	0.86 - 9.58	3.13	1.75	2	
		Mg	mol m^{-3}	2	13	13	NS	NS	AAS	NS	± 0.0041	1.19 - 44.20	13.11	6.17	2	
		Na	mol m^{-3}	2	13	13	NS	NS	AAS	NS	± 0.0043	13.5 - 472	120	32.6	2	
		K	mol m^{-3}	2	13	13	NS	NS	AAS	NS	± 0.0026	0.009 - 8.8	2.1	1.05	2	
		SO_4	mol m^{-3}	2	13	13	NS	NS	Turbidimetry APHA 126C	NS	± 0.0052	0.78 - 26.86	5.96	3.31	2	
		Cl	mol m^{-3}	2	6	6	NS	NS	Argentometric titra- APHA 112A	NS	± 0.0141	114 - 515	180	124	2	
		HCO_3 as $CaCO_3$	mmol m^{-3}	2	2	2	NS	NS	NS	NS	NS	17.0 - 17.3	17.3	-	2	
		Alk_t as $CaCO_3$	mol m^{-3}	2	11	11	NS	NS	NS	NS	NS	0.0155 - 1.12	0.856	0.859	2	
74-0019	SEA WATER	pH	pH units	54	106	106	1 gal plastic bottle	NS	pH meter	NS	NS	7.0 - 8.5	7.9	8.0	2	NPG
		alk as CO_3	mol m^{-3}	4	4	4	1 gal plastic bottle	NS	Colorimetric filtration	NS	NS	-	not detected	-	2	
		alk as HCO_3	mol m^{-3}	4	4	4	1 gal plastic bottle	NS	Colorimetric filtration	NS	NS	1.69 - 4.16	2.31	2.08	2	
		Turbidity as SiO_2	g m^{-3}	4	4	4	1 gal plastic bottle	NS	Hellige Turbidimeter	NS	NS	9.5 - 12.8	11.5	11.8	2	
		Hardness as $CaCO_3$	mol m^{-3}	4	4	4	1 gal plastic bottle	NS	AAS	NS	NS	1.40 - 3.88	2.18	1.52	2	
		SPM	g m^{-3}	4	4	4	1 gal plastic bottle	NS	Filtration; gravimetry	NS	NS	21.0 - 33.6	27.7	28.0	2	
		Ni	mmol m^{-3}	4	4	4	1 gal plastic bottle	NS	AAS	NS	NS	0.34 - 1.36	0.68	0.51	0	Note 2
		Pb	mmol m^{-3}	4	4	4	1 gal plastic bottle	NS	AAS	NS	NS	0.14 - 0.29	0.19	0.14	0	Note 2
		Zn	mmol m^{-3}	4	4	4	1 gal plastic bottle	NS	AAS	NS	NS	0.46 - 2.14	0.92	0.61	0	Note 2
		Cr	mmol m^{-3}	4	4	4	1 gal plastic bottle	NS	AAS	NS	NS	0.19 - 0.38	0.38	0.38	0	Note 2
		Ca	mol m^{-3}	4	4	4	1 gal plastic bottle	NS	AAS	NS	NS	0.94 - 2.28	1.36	1.00	2	
		Mg	mol m^{-3}	4	4	4	1 gal plastic bottle	NS	AAS	NS	NS	0.46 - 1.60	0.83	0.62	2	
		O_2	mol m^{-3}	54	92	92	1 gal plastic bottle	NS	S & P	NS	NS	0.28 - 0.44	0.36	0.38	2	
		CO_2	mol m^{-3}	54	104	104	1 gal plastic bottle	NS	S & P	NS	NS	0.23 - 0.68	0.33	0.34	2	
74-0020	RIVER WATER SEA WATER (Outer Delta)	O_2	mol m^{-3}	14	12	12	NS	NS	Hach Kit Model AA-36-WR	NS	NS	0.063 - 0.407	0.322	0.344	2	NPG
		pH	pH units	14	14	14	NS	NS	Hach Kit Model AA-36-WR	NS	NS	7.5 - 9.5	8.5	8.5	2	
		Hardness as $CaCO_3$	mol m^{-3}	14	11	11	NS	NS	Hach Kit Model AA-36-WR	NS	NS	0.060 - 0.160	0.092	0.090	2	
		Alk	mol m^{-3}	14	7	7	NS	NS	NS	NS	NS	0.020 - 0.110	0.067	0.070	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
74-0021A	**SEA WATER**	pH	pH units	5	5	5	NS	NS	NS	NS	NS	7.29 - 7.94	7.65	7.69	2	NPG; Stn II hypersaline
		Alk_T	mol m^{-3}	5	5	5	NS	NS	NS	NS	NS	0.986 - 1.230	1.080	1.031	2	
		PO_4	mol m^{-3}	5	5	5	NS	+ 5 mL chloroform	APHA	NS	NS	0.32 - 0.74	0.53	0.48	2	
		NO_3	mmol m^{-3}	5	5	5	NS	+ 5 mL chloroform	APHA	NS	NS	1.13 - 3.23	2.10	2.42	2	
		Si	mmol m^{-3}	5	5	5	NS	+ 5 mL chloroform	APHA	NS	NS	6.1 - 25.6	17.9	23.3	2	
		Hardness as $CaCO_3$	mol m^{-3}	5	5	5	NS	NS	NS	NS	NS	1.16 - 15.31	6.36	3.00	2	
		TH	mol m^{-3}	5	5	5	NS	NS	NS	NS	NS	1.80 - 56.94	24.71	10.03	2	
		Cl	mol m^{-3}	5	5	5	NS	NS	NS	NS	N.	1.30 - 571.47	226.39	74.45	2	
		SO_4	mol m^{-3}	5	4	4	NS	NS	NS	NS	NS	0.54 - 31.20	9.72	3.58	2	
		Fe	mmol m^{-3}	5	5	5	NS	NS	NS	NS	NS	0.36 - 2.51	1.43	1.07	0	Note 2
		Total Residue	kg m^{-3}	5	5	5	NS	NS	NS	NS	NS	0.40 - 33.32	14.10	5.99	2	
		Filterable Residue	kg m^{-3}	5	5	5	NS	NS	NS	NS	NS	0.22 - 32.47	13.22	4.96	2	
		Hg	μmol m^{-3}	5	5	5	NS	frozen	NS	NS	NS	1.00 - 814.87	166.17	4.49	0	Note 2
		Cu	mmol m^{-3}	5	5	5	NS	frozen	CRAAS	NS	NS	0.06 - 0.52	0.28	0.28	0	Note 2
		Ni	mmol m^{-3}	5	5	5	NS	frozen	CRAAS	NS	NS	0.36 - 15.60	6.56	2.72	0	Note 2
		Cr	mmol m^{-3}	5	5	5	NS	frozen	CRASS	NS	NS	0.02 - 17.15	3.67	0.19	0	Note 2
		Zn	mmol m^{-3}	5	5	5	NS	frozen	CRASS	NS	NS	0.15 - 3.06	1.18	1.53	0	Note 2
		Co	mmol m^{-3}	5	5	5	NS	frozen	CRASS	NS	NS	0.12 - 0.51	0.3[illegible]	0.37	2	Note 2
		Mn	mmol m^{-3}	5	5	5	NS	frozen	CRASS	NS	NS	0.04 - 10.5	2.4[illegible]	0.46	2, 0	Note 2
		Cd	μmol m^{-3}	5	5	5	NS	frozen	CRASS	NS	NS	9 - 107	27	9	1	Note 2
		Pb	μmol m^{-3}	5	5	5	NS	frozen	CRASS	NS	NS	4.8 - 483	203	261	1	Note 2
74-0021B	**SEA WATER**	pH	pH units	9	9	9	NS	NS	NS	NS	NS	7.95 - 8.76	8.33	8.27	2	
		Alk_T	mol m^{-3}	9	9	9	NS	NS	NS	NS	NS	0.44 - 0.72	0.58	0.63	2	
		PO_4	mmol m^{-3}	9	9	9	NS	+ 5 mL chloroform	APHA	NS	NS	0.32 - 5.79	1.68	0.63	2	
		Si	mmol m^{-3}	9	9	9	NS	+ 5 mL chloroform	APHA	NS	NS	2.6 - 21.8	11.4	12.4	2	
		NO_3	mmol m^{-3}	9	9	9	NS	+ 5 mL chloroform	APHA	NS	NS	0.32 - 1.13	0.65	0.65	2	
		Total Residue	kg m^{-3}	9	9	9	NS	NS	NS	NS	NS	0.46 - 8.10	3.40	2.93	2	
		Fe	mmol m^{-3}	9	9	9	NS	NS	NS	NS	NS	0.90 - 59.82	18.98	6.81	2	
		Org. N	mmol m^{-3}	8	8	8	NS	NS	NS	NS	NS	2.14 - 22.86	11.43	10.00	2	
		Hardness as $CaCO_3$	mol m^{-3}	9	9	9	NS	NS	NS	NS	NS	0.30 - 2.94	1.39	1.20	2	
		TH	kg m^{-3}	9	9	9	NS	NS	NS	NS	NS	0.13 - 1.36	0.60	0.48	2	
		Cl	mol m^{-3}	9	9	9	NS	NS	NS	NS	NS	2.12 - 117.15	47.40	35.64	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
74-0021B (cont'd)		SO_4	mol m^{-3}	9	9	9	NS	NS	NS	NS	NS	0.42 - 6.76	3.12	2.70	2	
		PO_4	mmol m^{-3}	9	9	9	NS	+ 5 mL chloroform	APHA	NS	NS	0.42 - 8.00	2.63	1.47	0	Note 2
		Acid H_4PO_4	mmol m^{-3}	7	7	7	NS	+ 5 mL chloroform	APHA	NS	NS	0.21 - 1.47	53.70	0.42	0	Note 2
		Org PO_4		7	7	7	NS	+ 5 mL chloroform	APHA	NS	NS	0.11 - 1.68	0.74	0.74	0	Note 2
74-0021C	SEA WATER	O_2	mol m^{-3}	11	14	14	in situ	N/A	YSI Model 34 DO Meter	NS	NS	0.30 - 0.37	0.31	0.33	2	
		pH	pH units	11	8	8	NS	NS	Hach Kit Model AL-36B	NS	NS	8.2 - 8.8	8.4	8.3	2	
		Alk_t	mol m^{-3}	11	6	6	NS	NS	Hach Kit Model AL-36B	NS	NS	0.35 - 0.85	0.71	0.77	2	
		TAc	mol m^{-3}	11	6	6	NS	NS	Hach Kit Model AL-36B	NS	NS	0.06 - 0.11	0.08	0.09	2	
		TH	mol m^{-3}	11	6	6	NS	NS	Hach Kit Model AL-36B	NS	NS	1.20 - 78.42	27.30	2.35	2	
		CO_2	mol m^{-3}	11	6	6	NS	NS	Hach Kit Model AL-36B	NS	NS	0.11 - 0.23	0.17	0.17	2	
74-0022	SEA WATER	O_2	mol m^{-3}	22	21	21	NS	NS	Hach DO Kit	NS	NS	0.09 - 0.47	0.33	0.37	2	NPG
		SPM	g m^{-3}	22	24	24	NS	0.5 L sample + 1 mL thymerosal	NS	NS	NS	0.0 - 62.1	11.17	5.4	2	
		pH	pH units	22	28	28	NS	NS	pH meter	NS	NS	6.6 - 8.8	7.68	7.6	2	
74-0027	SEA WATER	pH	pH units	1	4	4	Van Dorn sampling bottle	sealed in ampoules	IR gas analyzer	NS	NS	7.7 - 8.2	7.98	8.0	2	
		CO_2	mol m^{-3}	1	4	4	Van Dorn sampling bottle	sealed in ampoules	IR gas analyzer	NS	NS	0.92- 1.87	1.37	1.34	2	
75-0004	SEA WATER	O_2	mol m^{-3}	41	71	71	NS	NS	Hach Kit Model AL-36B	NS	NS	0.063 - 0.469	0.313	0.313	1	NPG; poor end pt. due to high turbidity
		CO_2	mol m^{-3}	6	6	6	NS	NS	NS	NS	NS	0.227 - 0.454	0.284	0.227	2	
		pH	pH units	39	85	85	NS	NS	Hach Kit Model AL-36B	NS	NS	7.5 - 9.9	8.5	8.5	2	
		Alk_t as $CaCO_3$	mol m^{-3}	29	38	38	NS	NS	Hach Kit Model AL-36B	NS	NS	0.34 - 7.52	2.76	1.46	1	approx. values
		HCO_3 as $CaCO_3$	mol m^{-3}	22	43	43	NS	NS	Hach Kit Model AL-36B	NS	NS	0.60 - 1.29	1.01	0.98	1	approx. values
		CO_3 as $CaCO_3$	mol m^{-3}	23	32	8	NS	NS	Hach Kit Model AL-36B	NS	NS	0.0 - 0.026	0.002	0	1	approx. values
		Hardness	ppm	40	58	58	NS	NS	Hach Kit Model AL-36B	NS	NS	86 - 3185	734	317	1	approx. values
		Turbidity	g m^{-3}	26	48	48	PVC bottles	NS	Hellige turbidimeter	NS	NS	2.35 - 120.0	39.1	2	2	
		Settleable Material	L m^{-3}	26	64	55	PVC bottles	NS	APHA 224F Imhoff Core	NS	NS	0 - 2.55	0.16	0.05	2	
		Total SPM	g m^{-3}	23	47	47	NS	NS	Filtration (0.45 μm); gravimetry (APHA)	NS	NS	5.9 - 348	50.4	29.6	2	
		Fixed SPM	g m^{-3}	23	47	47	NS	NS	Gravimetry APHA	NS	NS	4.3 - 311	40.4	22.4	2	
		Volatile	g m^{-3}	23	47	47	NS	NS	Gravimetry APHA	NS	NS	0.9 - 37.0	9.5	5.8	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
75-0004 (cont'd)		Total DS	g m^{-3}	23	47	47	NS	NS	APHA	NS	NS	0.16 - 23.75	8.83	9.32	2	
		Fixed DS	kg m^{-3}	23	47	47	NS	NS	APHA	NS	NS	0.11 - 19.32	7.00	6.56	2	
		Volatile DS	kg m^{-3}	23	48	48	NS	NS	APHA	NS	NS	0.05 - 5.95	1.83	1.75	2	
		Cl	mol m^{-3}	23	48	48	NS	NS	APHA	NS	NS	0.7 - 323	131	121	2	
		PO_4	mmol m^{-3}	23	48	0	new PVC bottles	frozen	APHA	NS	NS	-	< 0.32	-	2	
		NO_3	mmol m^{-3}	23	48	0	new PVC bottles	frozen	APHA	NS	NS	-	< 7.1	-	2	
		Ca	mol m^{-3}	23	48	48	new PVC bottles	frozen	AAS	NS	NS	0.48 - 6.53	2.79	2.75	2	
		Mg	mol m^{-3}	23	48	48	new PVC bottles	frozen	AAS	NS	NS	0.91 - 40.68	16.19	15.23	2	
		Cr	µmol m^{-3}	23	48	0	new PVC bottles	frozen	AAS	NS	NS	-	< 96	-	0	Note 2
		Cd	µmol m^{-3}	23	48	3	new PVC bottles	frozen	AAS	NS	NS	< 9 - 17.8	9.2	< 9	0	Note 2
		Pb	µmol m^{-3}	23	48	7	new PVC bottles	frozen	AAS	NS	NS	< 4.8 - 4.8	4.8	< 4.8	2	
		Ni	µmol m^{-3}	23	48	17	new PVC bottles	frozen	AAS	NS	NS	< 17 - 85	23.1	< 17	2	
		Si	mmol m^{-3}	23	48	48	new PVC bottles	frozen	APHA	NS	NS.	21.8 - 42.7	29.7	29.5	2	
		TC	mol m^{-3}	23	47	47	new PVC bottles	NS	APHA	NS	NS	0.92 - 3.16	2.29	2.41	2	
		TOC	mol m^{-3}	23	47	47	new PVC bottles	NS	APHA	NS	NS	0.17 - 1.17	0.61	0.58	2	
		TIC	mol m^{-3}	23	47	47	new PVC bottles	NS	APHA	NS	NS	0.92 - 2.33	1.68	1.75	2	
		Chl a	mg m^{-3}	11	15	15	new PVC bottles	filtered residues frozen	S & P	NS	NS	0.026 - 1.210	0.507	0.392	2	
75-0006	SEA WATER	O_2	mol m^{-3}	34	314	314	Niskin PVC sampler	Winkler flask + $MnCl_2$ + NaI	Micro WT on board ship	±0.0002	±0.0005 (mol m^{-3})	0.185 - 0.398	0.359	0.356	4	
		CH_4	µmol m^{-3}	29	59	59	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	<2.8%	ca ±2.82%	0.69 - 51.52	7.89	4.56	4	
		C_2H_6	nmol m^{-3}	29	51	51	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	<6.7%	ca ±6.7%	13.84 - 80.36	34.87	30.80	4	
		C_2H_4	nmol m^{-3}	29	59	59	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	<4.2%	ca ±4.2%	8.04 - 184.8	51.79	46.43	4	
		C_3H_8	nmol m^{-3}	29	55	55	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	<6.8%	ca ±6.8%	4.91 - 40.18	15.94	13.39	4	
		C_4H_{10}	nmol m^{-3}	29	56	56	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	<34%	ca ±34%	6.25 - 158.5	3.79	3.59	2	
		C_3H_6	nmol m^{-3}	29	58	58	5 L Blumer sampler	processed within minutes of sampling	Cold trap separation; backflush fractions through GC (FID)	<4.7%	ca ±4.7%	0.94 - 9.51	43.73	41.61	4	
		PAH	µg m^{-3} (chrysene equivalents)	3	20	20	5 L Blumer	$HgCl_2$ added; stored in glass liner	Shipboard CH_2Cl_2 extraction; shore analysis by HPLC-FS, ship analysis by FS	NS	NS	4 - 59	21.7	23.5	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
75-0006 (cont'd)		Tarballs & Plastics		17	17	0	Neuston net	NA	NA	NS	NS	-	none detected		-	
		PO_4	mmol m^{-3}	38	345	318	Niskin PVC sampler	not frozen; samples analyzed on board ship	Technicon Method 158-71W; AuA	±0.3%	±3%	0.00 - 2.31	0.704	0.675	4	
		NO_3	mmol m^{-3}	38	354	182	Niskin PVC sampler	not frozen; samples analyzed on board ship	Technicon Method 186-72W; AuA	±0.4%	±2%	0.0 - 19.0	2.0	1.1	4	
		Si	mmol m^{-3}	38	346	344	Niskin PVC sampler	not frozen; samples analyzed on board ship	Technicon Method 155-71W; AuA	±0.3%	±3%	1 - 34	13.8	13	4,0	Note 3
		Hg	µmol m^{-3}	13	39	39	Niskin PVC bottles with Teflon coated S/S springs	not frozen; samples analyzed on board ship	Hot oxidation; CVAAS	NS	NS	0.020 - 0.169	0.055	0.050	3	
		SPM	g m^{-3}	-	-	-	Niskin PVC sampler	not frozen; samples analyzed on board ship	Filtration (0.45 µm); gravimetry	NS	NS	-	1	-	2	
		Alk_t	meq kg^{-1}	6	7	7	Niskin PVC bottles	glass bottles + $HgCl_2$	NS	NS	NS	1.526 - 2.287	1.882	1.863	2	
		Total CO_2	mmol kg^{-1}	6	7	7	Niskin PVC bottles	glass bottles + $HgCl_2$	NS	NS	NS	1.527 - 2.197	1.792	1.759	2	
	BOTTOM SEDIMENT (cores to approx. 60 cm)	PAH	µg kg^{-1}	22	22	22	steel pipe dredge	frozen	digested in ethanolic KOH, GCMS with IS	approx. ± 15%	approx. - 56%	122 - 2888	1241.5	1073	3	DWB
		Total non-polar HC	mg kg^{-1}	15	15	15	steel pipe dredge	frozen	digested in ethanolic KOH; solvent extraction, GC with IS	NS	NS	36.9 - 109.1	66.05	64.1	2	DWB
		PAH	µg kg^{-1}	12	12	12	steel pipe dredge	frozen	digested in ethanolic KOH; GCMS with IS	approx. ± 15%	approx. - 56%	0.4 - 299	56.3	5.4	3	nearshore sediment only
		Fe	mol kg^{-1}	5	60	60	Phleger piston corer	frozen	AAS	NS	NS	0.437 - 0.760	0.589	0.582	2	DWB
		Mn	mmol kg^{-1}	5	61	61	Phleger piston corer	frozen	AAS	NS	NS	4.28 - 15.40	7.86	7.03	2	DWB
		Zn	mmol kg^{-1}	5	60	60	Phleger piston corer	frozen	AAS	NS	NS	1.46 - 2.92	2.29	2.14	2	DWB
		Cu	mmol kg^{-1}	5	61	61	Phleger piston corer	frozen	AAS	NS	NS	0.33 - 1.59	0.51	0.43	2	DWB
		Cr	mmol kg^{-1}	5	61	61	Phleger piston corer	frozen	AAS	NS	NS	0.16 - 0.85	0.51	0.48	2	DWB
		Pb	mmol kg^{-1}	3	41	41	Phleger piston corer	frozen	AAS	NS	NS	0.016 - 0.036	0.029	0.026	2	DWB
		Cd	µmol kg^{-1}	3	41	41	Phleger piston corer	frozen	AAS	NS	NS	0.952 - 7.369	2.616	1.877	2	DWB
		Hg	µmol kg^{-1}	12	34	34	Phleger piston corer	frozen	H_2SO_4/HNO_3 digestion; CVAAS	NS	NS	0.165 - 0.563	0.325	0.349	2	DWB
		% loss on ignition		3	39	39	Phleger piston corer	frozen	NS	NS	NS	3.14 - 6.90	5.40	4.63	2	DWB
	BIOTA (fish)	PAH	µg kg^{-1}	6	6	6	frozen within sea ice	frozen or preserved in formaldehyde	digested in ethanolic KOH: solvent extraction GC	approx. ± 15%	approx. - 56%	9 - 31	21	23	3	DWB
		Hg	µmol kg^{-1}	NS	5	5	NS	NS	NS	NS	NS	0.17 - 0.36	0.30	0.31	2	
75-0009	SEA WATER	SPM	g m^{-3}	23	76	76	bucket (SFC); Van Dorn sampling bottles (subsurface)	NS	Filtration (0.4 µm Nucleporel); gravimetry	±0.05	NS	0.023 - 17.452	1.025	1.025	3	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES adj.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
75-0010A	SEA WATER	O_2	mol m^{-3}	1	7	7	NS	NS	WT	NS	NS	0.370 - 0.373	0.372	0.372	2	
		PO_4	mmol m^{-3}	2	11	11	NS	NS	S & P	NS	NS	0.09 - 0.13	0.11	0.11	2	
		NO_3	mmol m^{-3}	2	13	13	NS	NS	S & P	NS	NS	2.9 - 9.0	6.6	3.6	2	
		Si	mmol m^{-3}	2	13	13	NS	NS	S & P	NS	NS	1.0 - 6.0	2.1	1.8	0	Note 3
		Chl a	mg m^{-3}	2	13	10	NS	NS	S & P	NS	NS	0.0 - 0.5	0.15	0.1	2	
		POC	mg m^{-3}	2	10	10	NS	NS	S & P	NS	NS	33 - 73	67.6	39	2	
	ICE CORE	PO_4	mmol m^{-3}	1	5	0	NS	NS	S & P	NS	NS	0.00 - 0.00	0.00	0.00	2	
		NO_3	mmol m^{-3}	1	5	5	NS	NS	S & P	NS	NS	0.3 - 0.7	0.5	0.5	2	
		Si	mmol m^{-3}	1	5	5	NS	NS	S & P	NS	NS	0.2 - 0.3	0.26	0.3	0	Note 3
		Chl a	mg m^{-3}	1	5	5	NS	NS	S & P	NS	NS	0.1 - 0.7	0.38	0.6	2	
		POC	mg m^{-3}	1	5	5	NS	NS	S & P	NS	NS	97 - 149	128	136	2	
75-0011	MACKENZIE RIVER WATER (Surface Only)	pH	pH units	10	27	27	NS	NS	Hach Kit Model AL-36B	NS	NS	7.85 - 8.60	8.2	8.1	2	NPG
		O_2	mol m^{-3}	10	19	19	NS	NS	Hach Kit Model AL-36B	NS	NS	0.347 - 0.438	0.367	0.383	2	
		Total SPM	g m^{-3}	10	27	27	NS	NS	Filtration (0.45 µm); gravimetry (APHA)	NS	NS	16.5 - 465	113	80	2	
		Fixed SPM	g m^{-3}	10	27	27	NS	NS	Filtration (0.46 µm); gravimetry (APHA)	NS	NS	15.5 - 419	117	66	2	
		Volatile SPM	g m^{-3}	10	27	27	NS	NS	Filtration (0.45 µm); gravimetry (APHA)	NS	NS	1.0 - 32.6	16.7	16.2	2	
		Total DS	g m^{-3}	10	26	26	NS	NS	APHA	NS	NS	102 - 266	148	136	2	
		Fixed DS	g m^{-3}	10	27	27	NS	NS	APHA	NS	NS	40 - 212	96	86	2	
		Volatile DS	g m^{-3}	10	27	27	NS	NS	APHA	NS	NS	22 - 86	56	56	2	
		HCO_3 alk as $CaCO_3$	mol m^{-3}	10	6	6	NS	NS	Hach Kit Model AL-36B	NS	NS	0.87 - 1.12	1.01	1.03	2	
		Cl	mol m^{-3}	10	6	6	new PVC bottles	NS	APHA	NS	NS	0.183 - 0.326	0.271	0.291	2	
		Turbidity as SiO_2	g m^{-3}	10	27	27	new PVC bottles	frozen	NS	NS	NS	6.2 - 86.0	32.2	30.0	2	
		SO_4	mol m^{-3}	10	12	12	new PVC bottles	frozen	APHA	NS	NS	0.130 - 0.278	0.241	0.293	2	filtered (0.45 µm)
		PO_4	mmol m^{-3}	10	12	2	new PVC bottles	frozen	APHA	NS	NS	< 0.105 - 1.05	0.186	-	2	filtered (0.45 µm)
		NO_3	mmol m^{-3}	10	12	3	new PVC bottles	frozen	APHA	NS	NS	< 7.1 - 17.9	9.5	< 7.1	2	filtered (0.45 µm)
		Cd	µmol m^{-3}	6	6	2	new PVC bottles	frozen	AAS	NS	NS	< 9 - 27	16	-	0	Note 2; filtered (0.45 µm)
		Ni	µmol m^{-3}	6	6	6	new PVC bottles	frozen	AAS	NS	NS	51 273	132	102	0	Note 2; filtered (0.45 µm)
		As	µmol m^{-3}	6	6	3	new PVC bottles	frozen	AAS	NS	NS	< 27 - 60	33	33	2	filtered (0.45 µm)

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
75-0011 (cont'd)		Pb	μmol m^{-3}	6	6	0	new PVC bottles	frozen	AAS	NS	NS	-	< 5	-	0	Note 2; filtered (0.45 μm)
		Fe	mmol m^{-3}	6	6	6	new PVC bottles	frozen	AAS	NS	NS	0.90 - 1.80	1.12	0.90	0	Note 2; filtered (0.45 μm)
		Ca	mol m^{-3}	6	6	6	new PVC bottles	frozen	AAS	NS	NS	0.66 - 0.71	0.69	0.69	2	filtered (0.45 μm)
		Mg	mol m^{-3}	6	6	6	new PVC bottles	frozen	AAS	NS	NS	0.26 - 0.44	0.35	0.37	2	filtered (0.45 μm)
		Total Fe	μmol m^{-3}	6	6	6	new PVC bottles	frozen	AAS	NS	NS	107 - 358	304	358	0	filtered (0.45 μm); total dissolved
		TC	mol m^{-3}	10	27	27	new PVC bottles	frozen	APHA	NS	NS	1.67 - 2.83	2.07	2.17	2	filtered (0.45 μm)
		TOC	mol m^{-3}	10	27	26	new PVC bottles	frozen	APHA	NS	NS	0.17 - 0.83	0.45	0.42	2	filtered (0.45 μm)
		TIC	mol m^{-3}	10	27	27	new PVC bottles	frozen	APHA	NS	NS	1.08 - 2.33	1.63	1.58	2	filtered (0.45 μm)
		CO_2	mol m^{-3}	1	28	28	new PVC bottles	frozen	APHA	NS	NS	0.114 - 0.341	0.216	0.227	2	filtered (0.45 μm)
75-0012A	SEA WATER	PO_4	mmol m^{-3}	3	3	3	NS	NS	S & P	NS	NS	0.13 - 0.27	0.15	0.15	2	
		NO_3	mmol m^{-3}	3	3	3	NS	NS	S & P	NS	NS	6.6 - 8.9	7.9	8.4	2	
		Si	mmol m^{-3}	3	3	3	NS	NS	S & P	NS	NS	62.2 - 77.0	69.3	68.7	2,0	Notes 2,3
75-0024	SEA WATER	pH	pH units	12	13	13	NS	NS	Hach Kit Model AA-36-WR	NS	NS	7.5 - 9.0	8.42	8.5	2	NPG
		Hardness as $CaCO_3$	mol m^{-3}	12	8	8	NS	NS	Hach Kit Model AA-36-WR	NS	NS	0.06 - 0.11	0.09	0.09	2	
		Alk	mmol m^{-3}	12	5	5	NS	NS	NS	NS	NS	2.0 - 95.9	57.9	69.9	2	
75-0025	SEA WATER	pH	pH units	6	6	6	NS	NS	NS	NS	NS	7.83 - 8.23	8.02	8.01	2	NPG
		Alk_t	mol m^{-3}	6	6	6	NS	NS	NS	NS	NS	0.90 - 1.29	1.05	1.01	2	
		Total Residue	kg m^{-3}	6	6	6	NS	NS	NS	NS	NS	0.26 -2.90	1.41	1.26	2	
		PO_4	mmol m^{-3}	6	6	6	NS	+3 mL $CHCl_3$	APHA	NS	NS	1.68 - 3.37	2.42	237	0	Note 2
		PO_4	mmol m^{-3}	6	6	6	NS	+3 mL $CHCl_3$	APHA	NS	NS	0.42 - 1.16	0.84	0.95	2	
		Acid-Hy PO_4	mmol m^{-3}	6	6	6	NS	+3 mL $CHCl_3$	APHA	NS	NS	0.32 - 1.58	0.74	0.47	2	
		Org. PO_4	mmol m^{-3}	6	6	6	NS	+3 mL $CHCl_3$	APHA	NS	NS	0.21 - 2.00	0.95	0.47	2	
		Hardness as $CaCO_3$	mol m^{-3}	6	6	6	NS	NS	NS	NS	NS	0.93 - 3.00	1.83	1.62	2	
		TH	mol m^{-3}	6	6	6	NS	NS	NS	NS	NS	1.46 - 11.56	5.00	3.93	2	
		Fe	mmol m^{-3}	6	6	6	NS	NS	NS	NS	NS	4.66 - 7.88	6.27	6.45	0	Note 2
		Cl	mol m^{-3}	6	6	6	NS	NS	NS	NS	NS	0.52 - 101.97	36.64	21.56	2	
		SO_4	mol m^{-3}	6	6	6	NS	NS	NS	NS	NS	1.41 - 6.58	3.53	2.94	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
75-0025 (cont'd)		Si	mmol m^{-3}	6	6	6	NS	+5 mL CHCl$_3$	APHA	NS	NS	29.5 - 35.0	31.8	31.9	2	
		TKN	mmol m^{-3}	6	3	3	NS	NS	NS	NS	NS	0.71 - 70.72	26.43	7.16	2	
		NH$_3$	mmol m^{-3}	6	2	2	NS	+5 mL CHCl$_3$	APHA	NS	NS	1.17 - 2.35	1.76	1.76	2	
		Org. N	mmol m^{-3}	6	3	3	NS	+5 mL CHCl$_3$	APHA	NS	NS	0.71 - 67.86	25.00	5.71	2	
		NO$_3$	mmol m^{-3}	6	6	6	NS	+5 mL CHCl$_3$	APHA	NS	NS	1.13 - 2.47	1.61	1.61	2	
		Hg	µmol m^{-3}	6	6	6	NS	frozen	NS	NS	NS	0.499 -1.996	0.998	0.499	0	Note 2
		Cu	mmol m^{-3}	6	6	6	NS	frozen	CRAAS	NS	NS	0.02 - 0.44	0.10	0.03	0	Note 2
		Ni	mmol m^{-3}	6	6	6	NS	frozen	CRAAS	NS	NS	0.02 - 0.41	0.17	0.05	0	Note 2
		Cr	mmol m^{-3}	6	6	6	NS	frozen	CRASS	NS	NS	0.04 - 0.19	0.08	0.06	0	Note 2
		Co	mmol m^{-3}	6	6	6	NS	frozen	CRAAS	NS	NS	0.02 - 0.15	0.06	0.03	2	
		Mn	mmol m^{-3}	6	6	6	NS	frozen	CRAAS	NS	NS	0.04 - 0.11	0.06	0.05	2	
		Cd	mmol m^{-3}	6	6	6	NS	frozen	CRAAS	NS	NS	0.01 - 0.02	0.01	0.01	0	Note 2
		Pb	mmol m^{-3}	6	6	6	NS	frozen	CRAAS	NS	NS	0.01 - 0.06	0.03	0.02	0	Note 2
75-0028A	SEA WATER	O$_2$	mol m^{-3}	4	36	36	Van Dorn bottle	NS	Polarography	±0.05	NS	0.35 - 0.63	0.51	0.48	2	
		pH	pH units	4	23	23	Van Dorn bottle	NS	pH meter	±0.05	NS	5.15 - 10.0	8.17	8.46	2	
		ORP	mV	4	25	25	Van Dorn bottle	NS	Pt-ORP probe	± 1	NS	(-580) - (+760)	93	205.	2	
75-0028B	SEA WATER	Alk$_T$	mol m^{-3}	15	29	29	Van Dorn bottles	BOD bottles	APHA	NS	NS	0.69 - 1.19	1.09	1.17	2	
		Ca	mol m^{-3}	15	29	29	Van Dorn bottles	PE bottles	NS	NS	NS	5.11 - 8.98	8.13	8.73	2	
		Cl	mol m^{-3}	15	29	29	Van Dorn bottles	PE bottles	NS	NS	NS	262 - 491	444	462.	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
75-0028B (cont'd)		Mg	mol m^{-3}	15	29	29	Van Dorn bottle	PE bottles	NS	NS	NS	25.5 - 310.1	69.8	66.2	2	
		NO$_3$	mmol m^{-3}	15	23	23	Van Dorn bottle	PE bottles	NS	NS	NS	0.081 0.323	0.165	0.161	2	
		P	mmol m^{-3}	15	23	23	Van Dorn bottle	PE bottles	NS	NS	NS	0.646 - 1.130	0.936	0.969	2	
		K	mol m^{-3}	15	29	29	Van Dorn bottle	PE bottles	NS	NS	NS	5.1 9.5	8.5	9.0	2	
		Na	mol m^{-3}	15	29	29	Van Dorn bottle	PE bottles	NS	NS	NS	239 - 431	388	418	2	
		SO$_4$	mol m^{-3}	15	29	29	Van Dorn bottle	PE bottles	NS	NS	NS	16.6 - 40.0	26.9	25.0	2	
		pH	pH units	15	29	29	Van Dorn bottle	PE bottles	NS	NS	NS	7.2 - 8.1	7.7	7.8	2	
	ICE CORE	Chl a	mg m^{-3}	1	1	1	SIPRE Cover	NS	APHA	NS	NS	NS	1.76	NS	2	
76-0003	SEA WATER	O$_2$	mol m^{-3}	5	9	9	Van Dorn or Kemmerer bottles	in DO bottles after fixation	Hach Kit Model AL-36B	NS	NS	0.363 - 0.406	0.386	0.406	2	
		pH	pH units	15	30	30	Van Dorn or Kemmerer bottle	analyzed directly after collection	Hach Kit Model AL-36B	NS	NS	7.3 - 8.1	7.7	7.65	2	
		HCO$_3$ alk as CaCO$_3$	mol m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	analyzed directly after collection	Hach Kit Model AL-36B	NS	NS	0.167 2.46	1.81	1.82	2	
		Hardness as CaCO$_3$	mol m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	8.15 - 51.87	33.65	36.64	2	
		Turbidity	g m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	1 day in darkness	Hellige (Model 8000) turbidimeter	NS	NS	1.0 - 60.0	12.3	10.1	2	
		Total SPM	g m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	7 d max.	APHA	NS	NS	9.8 - 107.8	39.0	36.0	2	
		Fixed SPM	g m^{-3}	15	28	28	Van Dorn or Kemmerer bottle	7 d max.	APHA	NS	NS	3.2 - 36.6	19.3	18.1	2	
		Volatile SPM	g m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	7 d max.	APHA	NS	NS	6.8 - 40.6	16.7	15.0	2	
		Total DS	kg m^{-3}	14	26	26	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	6.98 - 38.20	10.93	26.95	2	
		Fixed DS	kg m^{-3}	14	26	26	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	6.66 - 36.10	20.63	20.68	2	
		Volatile DS	kg m^{-3}	14	26	26	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	1.85 - 10.20	6.52	6.05	2	
		Cl	mol m^{-3}	15	29	29	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	62.76 440.0	280.0	3039	2	
		PO$_4$	mmol m^{-3}	15	27	0	pre-rinsed new PVC bottles	frozen indefinitely after filtration	NS	NS	NS	-	< 0.126	-	2	
		NO$_3$	mmol m^{-3}	15	29	0	pre-rinsed new PVC bottles	frozen indefinitely after filtration	NS	NS	NS	-	< 7.16		2	
		Ca	mol m^{-3}	15	30	30	pre-rinsed new PVC bottles	frozen	AAS	NS	NS	0.39 - 8.4	5.32	6.14	2	
		Mg	mol m^{-3}	15	30	30	pre-rinsed new PVC bottles	frozen	AAS	NS	NS	6.46 -42.35	26.15	27.61	2	
		Cr	µmol m^{-3}	15	30	12	pre-rinsed new PVC bottles	frozen	AAS	NS	NS	< 19.2 - < 192	57.6	19.2	0	Note 2
		Cd	µmol m^{-3}	15	30	4	pre-rinsed new PVC bottles	frozen	AAS	NS	NS	< 9 - 98	18	< 9	0	Note 2

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
76-0003 (cont'd)		Pb	μmol m^{-3}	15	30	16	pre-rinsed new PVC bottles	frozen	AAS	NS	NS	< 4.8 - 62.7	9.7	< 4.8	0	Note 2
		Ni	μmol m^{-3}	15	30	19	pre-rinsed new PVC bottles	frozen	AAS	NS	NS	< 17.0 - 68.1	34.1	17.00	2	
		Si	mmol m^{-3}	15	30	28	pre-rinsed new PVC bottles	frozen indefinitely after filtration	NS	NS	NS	< 3.9 - 31.1	14.6	10.5	2.0	Note 3
		TC	mol m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	0.83 - 3.25	2.12	2.08	2	
		TOC	mol m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	0.083 - 1.00	0.42	0.33	2	
		TIC	mol m^{-3}	15	30	30	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	0.25 - 2.41	1.67	1.75	2	
	BOTTOM SEDIMENT	Cu	mmol kg^{-1}	12	12	12	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.44 - 0.76	0.58	0.56	2	D&B
		Pb	mmol kg^{-1}	12	12	12	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.11 - 0.19	0.13	0.013	2	D&B
		Ni	mmol kg^{-1}	12	12	12	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.58 - 1.18	0.82	0.80	2	D&B
		Cr	mmol kg^{-1}	12	12	12	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.54 - 2.88	1.07	0.67	2	D&B
		Cd	μmol kg^{-1}	12	12	12	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	1.78 - 13.79	8.27	8.90	2	D&B
		Hg	μmol kg^{-1}	9	9	9	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.90 - 1.35	1.13	1.20	2	D&B
		V	mmol kg^{-1}	9	9	9	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	2.69 - 3.63	2.97	2.86	2	D&B
		Ba	mmol kg^{-1}	9	9	9	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	6.43 - 7.88	6.97	6.84	2	D&B
		Zn	mmol kg^{-1}	12	12	12	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	1.73 - 7.84	2.35	2.35	2	D&B
		TC	mol kg^{-1}	3	3	3	Phleger corer or Ekman dredge	frozen	NS	NS	NS	1.98 - 2.28	2.16	2.21	2	D&B
		Graphite C	mol kg^{-1}	3	3	3	Phleger corer or Ekman dredge	frozen	NS	NS	NS	0.93 - 1.03	0.97	0.93	2	D&B
76-0004	**SEA WATER**	O_2	mol m^{-3}	11	25	25	Van Dorn or Kemmerer bottle	in DO bottles after fixation	Hach Kit Model AL-36B	NS	NS	0.313 - 0.344	0.322	0.313	2	
		pH	pH units	15	19	19	Van Dorn or Kemmerer bottle	analyzed directly after collection	Hach Kit Model AL-36B	NS	NS	7.5 - 8.2	7.9	8.0	2	
		Alk_T	mol m^{-3}	21	27	13	Van Dorn or Kemmerer bottle	NS	Hach Kit Model AL-36B	NS	NS	0 - 1.02	0.42	0	2	
		H	ppm	22	32	32	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	325 - 4826	927	598	2	
		Turbidity	g m^{-3}	3	8	8	Van Dorn or Kemmerer bottle	1 day in darkness	Hellige Turbidimeter Model 8000	NS	NS	9.4 - 44.0	26.4	26.4	2	
		Total SPM	g m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	7 d	APHA	NS	NS	14.2 75.0	48.4	49.3	2	
		Fixed SPM	g m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	7 d	APHA	NS	NS	9.2 - 56.3	36.3	35.2	2	
		Volatile SPM	g m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	7 d	APHA	NS	NS	5.0 - 18.7	12.1	12.5	2	
		Total DS	kg m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	2.13 - 30.14	14.97	14.66	2	
		Fixed DS	kg m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	1.96 - 24.9	12.8	13.2	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
76-0004 (cont'd)		Volatile DS	kg m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	0.20 - 8.03	2.16	1.44	2	
		Cl	mol m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	21.9 - [illegible]	160.2	[illegible]	2	
		PO_4	mmol m^{-3}	4	8	0	pre-cleaned new PVC bottles	frozen indefinitely after filtration	APHA	NS	NS		< 1.26		2	
		NO_3	mmol m^{-3}	4	[illegible]	0	pre-cleaned new PVC bottles	frozen indefinitely after filtration	APHA	NS	NS		< 7.1		2	
		Ca	mol m^{-3}	4	8	8	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	0.84 - 6.84	3.42	2.89	2	
		Mg	mol m^{-3}	4	8	8	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	1.08 - 29.07	14.64	14.31	2	
		Cr	µmol m^{-3}	4	8	2	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	< 19 - 63	48	< 19	0	Note 2
		Cd	µmol m^{-3}	4	8	2	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	< 9 - 18	11	< 9	0	Note 2
		Pb	µmol m^{-3}	4	8	1	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	< 5 - 179	32	< 5	0	Note 2
		Ni	µmol m^{-3}	4	8	5	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	< 17 - 63	27	31	2	
		Si	mmol m^{-3}	4	8	8	pre-cleaned new PVC bottles	frozen indefinitely after filtration	APHA	NS	NS	4.7 - 40.4	15.5	12.4	2,0	Note 3
		TC	mol m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	1.58 - 3.25	2.33	2.25	2	
		TOC	mol m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	0.25 - 1.17	0.50	0.42	2	
		TIC	mol m^{-3}	4	8	8	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	1.33 - 2.17	1.75	1.92	2	
		Chl a	mg m^{-3}	NS	NS	NS	polyethylene bottles	in darkness	S & P	NS	NS		1.014(A) 0.785(B)		2	pre-construction Station (B)
	BOTTOM SEDIMENT (Surface Layer)	TC	mol kg^{-1}	8	8	8	Phleger corer	frozen	APHA	NS	NS	0.26 - 2.49	1.16	1.18	2	DWB
		Graphite C	mol kg^{-1}	8	8	8	Phleger corer	frozen	APHA	NS	NS	0.04 - 1.04	0.47	0.48	2	DWB
76-0005	SEA WATER	O_2	mol m^{-3}	49	80	80	Van Dorn or Kemmerer bottle	in DO bottles after fixation	Hach Kit Model AL 36-B	NS	NS	0.188 - 0.434	0.359	0.375	3	
		pH	pH units	62	100	100	van Dorn or Kemmerer bottle	analyzed directly after collection	Hach Kit Model AL-36B	NS	NS	7.5 - 8.5	8.0	7.8	2	
		Alk_t	mol m^{-3}	49	61	51	Van Dorn or Kemmerer bottle	analyzed directly after collection	Hach Kit Model AL 36-B	NS	NS	0.0 - 1.71	0.40	1.12	2	
		Hardness as $CaCO_3$	mol m^{-3}	62	76	76	Van Dorn or Kemmerer bottle	NS	APHA	NS	NS	3.00 - 46.60	18.35	15.90	2	
		Turbidity	g m^{-3}	62	99	99	Van Dorn or Kemmerer bottle	1 day in darkness	Hellige Turbidimeter Model 8000	NS	NS	1.5 - 130.0	36	30	2	
		Settleable	L m^{-3}	49	68	26	Van Dorn or Kemmerer bottle	1 day in darkness	Imhoff Cone APHA 224F	NS	NS	0.0 - 0.030	< 0.006	trace	2	
		Total SPM	g m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	7 d max.	APHA	NS	NS	8.8 - 187.0	59.1	31.0	2	
		Fixed SPM	g m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	7 d max.	APHA	NS	NS	4.8 - 294.0	45.4	22.2	2	
		Volatile SPM	g m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	7 d max.	APHA	NS	NS	3.0 - 48.4	13.6	11.0	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
76-0003 (cont'd)		Total DS	kg m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	4.07 - 30.10	16.33	15.40	2	
		Fixed DS	kg m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	3.40 - 36.20	13.50	11.90	2	
		Volatile DS	kg m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	0.63 - 5.30	3.72	2.90	2	
		Cl	mol m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	36 331	189	162	2	
		PO$_4$	mmol m^{-3}	26	41	0	pre-cleaned PVC bottles	frozen indefinitely after filtration	APHA	NS	NS	-	< 1.26	-	2	bottle cleaning procedure unknown
		NO$_3$	mmol m^{-3}	26	41	0	pre-cleaned new PVC bottles	frozen indefinitely after filtration	APHA	NS	NS		< 7.14	-	2	
		Ca	mol m^{-3}	26	41	41	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	1.28 - 7.44	4.08	3.37	2	
		Mg	mol m^{-3}	26	41	41	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	5.26 - 40.46	19.24	16.16	2	
		Cr	μmol m^{-3}	26	41	9	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	< 19 - 570	36	< 19	0	Note 2
		Pb	μmol m^{-3}	26	41	35	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	< 5 - 39	14	10	0	Note 2
		Cd	μmol m^{-3}	26	41	35	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	-	< 9	.	0	Note 2
		Ni	μmol m^{-3}	26	41	16	pre-cleaned new PVC bottles	frozen	AAS	NS	NS	< 17 - 68	25	< 17	2	
		Si	mmol m^{-3}	26	41	41	pre-cleaned new PVC bottles	frozen indefinitely after filtration	APHA	NS	NS	4.7 - 35.0	22.1	26.4	2,0	Note 3
		TC	mol m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	0.416 - 2.998	2.032	2.165	2	
		TOC	mol m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	0 - 0.999	0.391	0.333	2	
		TIC	mol m^{-3}	26	41	41	Van Dorn or Kemmerer bottle	frozen	APHA	NS	NS	0.416 - 2.165	1.650	1.749	2	
	BOTTOM SEDIMENT (Surface Layer)	TC	mol kg^{-1}	8	23	23	Phleger corer or Ekman dredge	frozen	APHA	NS	NS	1.32 2.68	2.10	2.14	2	D&B
		Graphite C	mol kg^{-1}	8	23	23	Phleger corer or Ekman dredge	frozen	APHA	NS	NS	0.42 - 1.30	0.82	0.82	2	D&B
		Cu	mmol kg^{-1}	8	23	23	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.22 0.94	0.42	0.38	2	D&B
		Pb	mmol kg^{-1}	8	23	23	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.08 - 0.17	0.12	0.11	2	D&B
		Zn	mmol kg^{-1}	8	23	23	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.26 - 2.75	1.68	1.53	2	D&B
		Cd	μmol kg^{-1}	8	23	23	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	1.78 13.36	5.60	2.67	2	D&B
		Ni	mmol kg^{-1}	8	23	23	Phleger corer or Ekman dredge	frozen	AAS	NS	NS	0.44 - 0.97	0.64	0.55	2	D&B
76-0006	**BOTTOM SEDIMENT** (Cores 8-33 cm)	Cu	mmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	Hot acid extraction; FAAS	±13.3%	NS	0.28 0.98	0.63	0.63	3	D&B
		Pb	mmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	Hot acid extraction; FAAS	±103.5%	NS	0.07 - 0.28	0.14	0.13	3	D&B
		Zn	mmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	Hot acid extraction; FAAS	±11.2%	NS	1.00 - 4.24	2.44	2.37	3	D&B
		Ni	mmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	Hot acid extraction; FAAS	±14.6%	NS	0.38 - 1.16	0.92	0.72	3	D&B

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES <d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
76-0006 (cont'd)		Cr	mmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	Hot acid extraction; FAAS	±13.4%	NS	0.34 - 5.00	1.12	8.23	3	
		Cd	μmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	Hot acid extraction; FAAS	±29.1%	NS	9.4 - 24.0	9.7	13.8	3	
		Hg	μmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	H_2SO_4/HNO_3 digestion; CVAAS	±17.6%	NS	0.87 - 1.55	1.21	1.19	3	
		V	mmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	Hot acid extraction; FAAS	±10.4%	NS	1.34 - 3.08	2.69	2.74	3	
		Ba	mmol kg^{-1}	26	26	26	Phleger corer	frozen in plastic liners	XRF	± 6.9%	NS	6.79 - 108.7	14.05	7.82	3	
	BIOTA (Benthos)	Cu	mmol kg^{-1}	18	19	19	Ekman grab	frozen in plastic containers	$HNO_3/HClO_4$ digestion; GFAAS	NS	NS	0.34 - 1.39	0.74	0.72	2	
		Pb	mmol kg^{-1}	18	19	19	Ekman grab	frozen in plastic containers	$HNO_3/HClO_4$ digestion; GFAAS	NS	NS	0.12 - 1.01	0.31	0.18	2	
		Zn	mmol kg^{-1}	19	19	19	Ekman grab	frozen in plastic containers	$HNO_3/HClO_4$ digestion; GFAAS	NS	NS	1.03 - 4.24	1.53	1.36	2	
		Ni	mmol kg^{-1}	18	19	19	Ekman grab	frozen in plastic containers	$HNO_3/HClO_4$ digestion; GFAAS	NS	NS	0.26 - 3.43	1.33	0.89	2	
		Cr	mmol kg^{-1}	18	19	19	Ekman grab	frozen in plastic containers	$HNO_3/HClO_4$ digestion; GFAAS	NS	NS	0.30 - 5.63	1.99	1.16	2	
		Cd	μmol kg^{-1}	18	19	19	Ekman grab	frozen in plastic containers	$HNO_3/HClO_4$ digestion; GFAAS	NS	NS	48.9 - 378.1	97.8	77.3	2	
		V	mmol kg^{-1}	18	19	19	Ekman grab	frozen in plastic containers	$HNO_3/HClO_4$ digestion; GFAAS	NS	NS	0.62 - 5.75	1.85	1.08	2	
77-0001	SEA WATER	Turbidity as SiO_2	mol m^{-3}	26	137	137	Van Dorn sampling bottle	1 L PVC bottle	Hellige Turbidimeter	NS	NS	0.03 - 3.46	0.99	0.62	2	NPG
77-0002	SEA WATER	O_2	mol m^{-3}	12	24	24	NS	NS	Hach OX-10 oxygen kit	NS	NS	0.250 - 0.344	0.306	0.313	2	
		Turbidity	FTU	12	24	24	NS	NS	Hach Model 2100A turbidimeter	NS	NS	3.0 - 18.0	5.4	4.0	2	shaken
		Turbidity	FTU	12	24	24	NS	NS	Hach Model 2100A turbidimeter	NS	NS	0.3 - 1.5	0.7	0.7	2	settled
		SPM	g m^{-3}	12	24	24	NS	NS	Filtration; gravimetry	NS	NS	5.2 - 44.8	14.9	12.5	2	
		pH	pH units	12	24	24	NS	NS	Radiometer pH meter	NS	NS	6.4 - 7.9	7.3	7.4	2	
77-0003	SEA WATER	O_2	mol m^{-3}	18	184	184	Niskin PVC sampler	max 1 day after pickling	Micro Winkler Titration	2.2×10^{-4}	8.9×10^{-4}	0.213 - 0.464	0.319	0.306	4	
		PO_4	mmol m^{-3}	18	200	200	Niskin PVC sampler	frozen unfiltered	Technicon Method 155-71W/AuA	± 0.5	± 3%	0.45 - 2.26	1.42	1.37	4	
		Si	mmol m^{-3}	18	176	176	Niskin PVC sampler	frozen unfiltered	Technicon Method 186-72W/AuA	± 0.3	± 3%	2.0 - 34.8	16.7	14.6	4	
		NO_3	mmol m^{-3}	18	200	181	Niskin PVC sampler	frozen unfiltered	Technicon Method 158-71W/AuA	± 0.4	± 2%	0.0 - 18.7	8.35	13.7	4	
		SPM	ppm v	18	167	167	Niskin PVC sampler	samples analyzed upon collection	TA II Coulter Counter	NS	NS	0.0042 - 4.05	0.353	0.219	2	
		Hg	nmol m^{-3}	16	32	30	Acid cleaned Niskin (PVC) sampler	50 mL HNO_3 + 2 mL 5% $K_2Cr_2O_7$ + 4°C	CVAAS	NS	NS	5 - 284	93	80	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
77-0003 (cont'd)	**BOTTOM SEDIMENT** (Cores 20-130 cm)	Fe	mol kg^{-1}	13	140	140	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bags or core liners	Acid digestion; AAS	NS	NS	0.27 - 1.38	0.63	0.57	2	D&B
		Mn	mmol kg^{-1}	13	140	140	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bags or core liners	Acid digestion; AAS	NS	NS	3.44 - 308	53.2	14.2	2	D&B
		Cu	mmol kg^{-1}	13	140	140	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bags or core liners	Acid digestion; AAS	NS	NS	0.21 - 0.80	0.33	0.35	2	D&B
		Zn	mmol kg^{-1}	13	140	140	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bars or core liners	Acid digestion; AAS	NS	NS	0.38 - 3.35	1.64	1.76	2	D&B
		Cr	mmol kg^{-1}	6	83	83	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bags or core liner	Acid digestion; AAS	NS	NS	0.24 - 5.9	0.48	0.35	2	D&B
		Pb	µmol kg^{-1}	1	12	12	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bags or core liners	Acid digestion; AAS	NS	NS	19.3 - 30.4	25.0	25.5	2	D&B
		Cd	µmol kg^{-1}	1	12	12	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bags or core liners	Acid digestion; AAS	NS	NS	1.8 - 4.4	2.9	2.5	2	D&B
		OC	mol kg^{-1}	9	9	71	Benthos Model 2171 gravity corer	core sections frozen in Whirlpak bags or core liners	Oxidation (acidic K$_2$Cr$_2$O$_7$); titration with Fe ammonium sulphate	NS	NS	0.06 - 1.46	0.78	0.79	2	D&B
77-0006	**INTERTIDAL SEDIMENT** (Surface Layer)	B(a)P	nmol kg^{-1}	17	19	19	NS	frozen in plastic bags	TLC isolation from PAH + fluorometry; or HPLC with UV and fluorescence detectors	ca ± 25%	NS	0.793 - 79.3	35.7	13.5	3	
77-0007	**SEA WATER**	Cu	µmol m^{-3}	10	39	39	pump through acid cleaned PE tubing	+ 1 mL HNO$_3$ (Aristar)	APDC/NaDDC/Freon Extraction; FAAS	± 27%	NS	4.72 - 55.1	12.8	9.4	3	samples not filtered
		Zn	µmol m^{-3}	10	39	39	pump through acid cleaned PE tubing	+ 1 mL HNO$_3$	APDC/NaDDC/Freon Extraction; FAAS	± 3%	NS	3.06 - 52.0	17.0	13.8	3	samples not filtered
		Cd	µmol m^{-3}	10	39	39	pump through acid cleaned PE tubing	+ 1 mL HNO$_3$ (Aristar)	APDC/NaDDC/Freon Extraction; FAAS	± 14%	NS	0.18 - 0.98	0.35	0.44	3	samples not filtered
		Pb	µmol m^{-3}	10	33	9	pump through acid cleaned PE tubing	+ 1 mL HNO$_3$ (Aristar)	APDC/NaDDC/Freon Extraction; FAAS	± 15%	NS	< 0.09 - 8.2	0.82	< 0.09	3,0	samples not filtered; Note 2
		Cr	µmol m^{-3}	10	39	39	pump through acid cleaned PE tubing	+ 1 mL HNO$_3$ (Aristar)	APDC/NaDDC/Freon Extraction; FAAS	± 13%	NS	0.19 - 5.7	0.96	0.77	3	samples not filtered
		Hg	nmol m^{-3}	10	33	33	pump through acid cleaned PE tubing	+ 1mL HNO$_3$ (Aristar)	Hot oxidation; CVAAS	± 10%	NS	7.0 - 87.2	40.9	35.4	3	samples not filtered,
		Fe	µmol m^{-3}	10	38	38	pump through acid cleaned PE tubing	+ 1 mL HNO$_3$ (Aristar)	Hot oxidation; CVAAS	± 22%	NS	18 - 3814	771	403	0	samples not filtered; Note 2
	BOTTOM SEDIMENT (Surface Layer)	Cu	mmol kg^{-1}	36	204	204	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 4%	+ 20%	0.22 - 0.58	0.40	0.41	4	D&B
		Zn	mmol kg^{-1}	36	204	204	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 3%	- 2%	0.25 - 2.10	1.60	1.64	4	D&B
		Cd	µmol kg^{-1}	36	204	0	Ponar grab	frozen	HF/aqua regia digestion; FAAS	NS	NS	-	< 1.8	-	2	D&B
		Pb	µmol kg^{-1}	36	204	14	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 15%	- 6%	< 14.5 - 34.5	16.4	< 14.5	4	D&B
		Cr	mmol kg^{-1}	36	204	204	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 4%	+ 20%	0.25 - 2.52	1.57	1.63	4	D&B
		Hg	µmol kg^{-1}	36	204	204	Ponar grab	frozen	H$_2$SO$_4$/HNO$_3$ digestion; CVAAS	± 5%	NS	0.19 - 0.53	0.35	0.37	3	D&B
		Fe	mmol kg^{-1}	36	204	204	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 4%	+ 5%	0.48 - 0.92	0.74	0.76	4	D&B

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
	BIOTA (fish)	Hg	µmol kg⁻¹	1	26	11	gillnets	frozen	Tissues homogenized; hot acid oxidation; CVAAS	± 25%	NS	< 0.05 0.20	0.07	< 0.05	2	W&B, Note 4
		As	µmol kg⁻¹	1	27	27	gillnets	frozen	Tissues homogenized; $HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	± 11%	- 2%	6.1 - 49.0	20.9	19.0	2	W&B, Note 4
		Cd	µmol kg⁻¹	1	27	27	gillnets	frozen	Tissues homogenized; $HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	± 70%	+ 23% + 15%	0.18 2.31	1.03	1.07	2	W&B, Note 4
		Cr	µmol kg⁻¹	1	27	27	gillnets	frozen	Tissues homogenized; $HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	± 39%	NS	0.77 - 15.0	5.67	4.23	2	W&B, Note 4
		Pb	µmol kg⁻¹	1	27	27	gillnets	frozen	Tissues homogenized; $HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	± 51%	+ 26%	1.45 - 7.72	2.99	2.90	2	W&B, Note 4
		Zn	mmol kg⁻¹	1	27	27	gillnets	frozen	Tissues homogenized; $HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	± 11%	- 7% + 2%	0.083 - 0.199	0.118	0.122	2	W&B, Note 4
	MACKENZIE RIVER WATER	Hg	µmol m⁻³	36	47	7	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	CVAAS	NS	NS	< 0.25 - 6.49	0.41	< 0.25	0	Note 2
		As (total)	µmol m⁻³	36	47	0	Van Dorn bottle	PE bottle + HCl	Arsine/AgDDC method (APHA 104A)	NS	NS	-	<133	-	2	
		Cd (total)	µmol m⁻³	36	47	2	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS	< 8.9 - 26.7	9.3	< 8.9	2	
		Cd (diss)	µmol m⁻³	2	2	0	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	-	< 8.9	-	0	Note 2
		Cr (total)	µmol m⁻³	36	47	4	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS	< 38.5 - 57.8	38.9	< 38.5	2	
		Cr (diss)	µmol m⁻³	4	4	1	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	< 38.5 - 38.5	38.5	< 38.5	0	Note 2
		Pb (total)	µmol m⁻³	36	47	23	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS	< 9.7 - 58.2	13.9	9.7	2	
		Pb (diss)	µmol m⁻³	18	22	0	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	-	< 9.7	-	0	Note 2
		Zn (total)	µmol m⁻³	36	48	48	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS	137.7 - 1040	274	245	2	
		Zn (diss)	µmol m⁻³	36	47	26	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	< 15.3 - 45.9	21.1	15.3	2	
	BOTTOM SEDIMENT (Cores to 60 cm)	Hg	µmol kg⁻¹	36	131	131	Alpine gravity corer	frozen in plexiglass core tubes	H_2SO_4/HNO_3 digestion; cold vapour AAS	± 18%	NS	0.005 - 0.47	0.23	0.24	3	D&B
		As	mmol kg⁻¹	36	115	115	Alpine gravity corer	frozen in plexiglass core tubes	HCl digestion + arsine/AgDDC method (APHA 104A)	± 36%	NS	0.027 - 0.101	0.065	0.069	3	D&B
		Cd	µmol kg⁻¹	36	131	131	Alpine gravity corer	frozen in plexiglass core tubes	Aqua regia digestion; FAAS	± 41%	NS	1.8 - 25.8	11.8	12.4	3	D&B
		Cr	mmol kg⁻¹	36	131	131	Alpine gravity corer	frozen in plexiblass core tubes	Aqua regia digestion; FAAS	± 15%	NS	0.079 - 0.36	0.21	0.17	3	D&B
		Pb	µmol kg⁻¹	36	131	131	Alpine gravity corer	frozen in plexiglass core tubes	Aqua regia digestion; FAAS	± 24%	NS	38.6 - 121	85.6	86.9	3	D&B
		Zn	mmol kg⁻¹	36	131	131	Alpine gravity corer	frozen in plexiblass core tubes	Aqua regia digestion; FAAS	± 9%	NS	0.49 - 2.19	1.31	1.35	3	D&B

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO STATIONS	NO SAMPLES	NO SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
77-0007 (cont'd)	**BIOTA** (Miscellaneous Benthos)	Cu	mmol kg^{-1}	28	28	28	Ponar grab	frozen (gut not purged)	HNO$_3$ digestion; FAAS	± 6%	NS	0.24 - 14.0	1.79	0.86	2	DWB
		Zn	mmol kg^{-1}	28	26*	26	Ponar grab	frozen (gut not purged)	HNO$_3$ digestion; FAAS	± 2%	NS	0.80 - 4.62	1.52	1.23	2	DWB; contaminated samples not included
		Cd	µmol kg^{-1}	28	28	0	Ponar grab	frozen (gut not purged)	HNO$_3$ digestion; FAAS	NS	NS	-	< 2.7	-	2	DWB
		Pb	µmol kg^{-1}	28	28	7	Ponar grab	frozen (gut not purged)	HNO$_3$ digestion; FAAS	NS	NS	< 14.5 - 140	22.2	< 14.5	2	DWB
		Cr	mmol kg^{-1}	28	27*	27	Ponar grab	frozen (gut not purged)	HNO$_3$ digestion; FAAS	± 4%	NS	0.19 - 0.73	0.37	0.35	2	DWB; contaminated samples not included
		Hg	µmol kg^{-1}	28	28	28	Ponar grab	frozen (gut not purged)	HNO$_3$ digestion; FAAS	± 5%	NS	0.12 - 0.68	0.27	0.26	2	DWB
		Fe	mmol kg^{-1}	28	28	28	Ponar grab	frozen (gut purged)	HNO$_3$ digestion; FAAS	± 1%	NS	1.79 - 26.9	7.2	5.4	2	DWB
77-0008	**SEA WATER** (Netserk F-40)	Hg	µmol m^{-3}	46	65	11	Van Dorn bottle	PE bottle + HNO$_3$ + AuCl$_4$	CVAAS	NS	NS	< 0.25 - 3.39	0.35	0.25	0	NPG; Note 2
		As (total)	µmol m^{-3}	46	61	0	Van Dorn bottle	PE bottle + HCl	Arsine/Ag DDC method APHA 104A	NS	NS	-	<133	-	2	
		Cd (total)	µmol m^{-3}	46	61	7	Van Dorn bottle	PE bottle + HNO$_3$ + AuCl$_4$	APDC/MIBK extraction; FAAS	NS	NS	< 8.9 - 115.7	10.5	< 8.9	2	
		Cd (diss)	µmol m^{-3}	7	7	1	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	< 8.9 - 8.9	8.9	< 8.9	0	Note 2
		Cr (total)	µmol m^{-3}	46	61	1	Van Dorn bottle	PE bottle + HNO$_3$ + AuCl$_4$	APDC/MIBK extraction; FAAS	NS	NS	< 38.5 - 76.9	39.1	< 38.5	2	
		Cr (diss)	µmol m^{-3}	1	1	0	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	-	76.9	-	0	cleaning procedures for sampler and storage bottles unspecified
		Pb (total)	µmol m^{-3}	46	61	21	Van Dorn bottle	PE bottle + HNO$_3$ + AuCl$_4$	APDC/MIBK extraction; FAAS	NS	NS	< 9.7 - 33.8	11.6	< 9.7	2	
		Pb (diss)	µmol m^{-3}	22	22	0	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	-	< 9.7	-	0	Note 2
		Zn (total)	µmol m^{-3}	46	61	61	Van Dorn bottle	PE bottle + HNO$_3$ + AuCl$_4$	APDC/MIBK extraction; FAAS	NS	NS	61.2 - 1142	231	153	2	
		Zn (diss)	µmol m^{-3}	46	61	47	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	15.5 - 122.6	52.2	61.2	0	Note 2
	BOTTOM SEDIMENT (Cores to 60 cm)	Hg	µmol kg^{-1}	67	198	198	Alpine gravity corer	frozen in plexiglass core tubes	Hot acid oxidation; cold vapour AAS	± 18%	NS	0.005 - 35.6	1.25	0.33	3	DWB
		As	mmol kg^{-1}	67	207	207	Alpine gravity corer	frozen in plexiglass core tubes	HCl digestion + Arsine/AgDDC method (APHA 104A)	± 32%	NS	0.039 - 0.51	0.14	0.13	3	DWB
		Cd	µmol kg^{-1}	67	204	204	Alpine gravity corer	frozen in plexiglass core tubes	Aqua regia digestion; FAAS	± 22%	NS	0.18 - 55.2	10.2	8.9	3	DWB
		Cr	mmol kg^{-1}	67	205	205	Alpine gravity corer	frozen in plexiglass core tubes	Aqua regia digestion; FAAS	± 15%	NS	0.20 - 0.97	0.13	0.12	3	DWB
		Pb	µmol kg^{-1}	67	205	205	Alpine gravity corer	frozen in plexiglass core tubes	Aqua regia digestion; FAAS	± 18%	NS	8.2 - 2610	133	101	3	DWB
		Zn	mmol kg^{-1}	67	205	205	Alpine gravity corer	frozen in plexiglass core tubes	Aqua regia digestion; FAAS	± 5%	NS	0.47 - 20.8	2.21	1.87	3	DWB
	BIOTA (miscellaneous benthos)	Hg	µmol kg^{-1}	33	68	44	Ponar grab	formalin (some benthos purged)	Hot acid oxidation; cold vapour AAS	ca ± 25%	NS	0.05 - 2.44	0.24	0.10	2	WWB, Note 4
		As	mmol kg^{-1}	33	62	62	Ponar grab	formalin (some benthos purged)	HNO$_3$/HClO$_4$/H$_2$SO$_4$ digestion at 210°C; FAAS	ca ± 11%	-2%	0.002 - 0.035	0.020	0.021	2	WWB, Note 4
		Cd	µmol kg^{-1}	33	63	63	Ponar grab	formalin (some benthos purged)	HNO$_3$/HClO$_4$/H$_2$SO$_4$ digestion at 210°C; FAAS	ca ± 70%	+21% +15%	5.3 - 36.5	21.3	22.2	2	WWB, Note 4

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
77-0008 (cont'd)		Cr	mmol kg^{-1}	33	63	59	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 39%	NS	< 0.002 - 0.110	0.030	0.027	2	WWB, Note 4
		Pb	µmol kg^{-1}	33	63	60	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 51%	+26%	< 0.48 - 17.86	6.77	5.79	2	WWB, Note 4
		Zn	mmol kg^{-1}	33	63	63	Ponar grab	frozen	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 11%	- 7% + 2%	0.076 - 0.66	0.49	0.51	2	WWB, Note 4
	SEA WATER (Isserk F-27)	Hg	µmol m^{-3}	36	42	0	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	CVAAS	NS	NS		< 0.25		0	NPG; Note 2
		As (total)	µmol m^{-3}	36	42	0	Van Dorn	PE bottle + HCl	Arsine/AgDDC method (APHA 106A)	NS	NS		<133		2	
		Cd (total)	µmol m^{-3}	36	42	0	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS		< 8.9		2	
		Cr (total)	µmol m^{-3}	36	42	10	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS	< 38.5 - 57.7	44.2	< 38.5	2	
		Cr (diss)	µmol m^{-3}	10	10	1	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	< 38.5 - 38.5	38.5	< 38.5	0	Note 2
		Pb (total)	µmol m^{-3}	36	42	11	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS	< 9.7 - 29.0	15.3	< 9.7	2	
		Pb (diss)	µmol m^{-3}	10	11	6	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	< 9.7 - 19.6	11.8	< 9.7	0	Note 2
		Zn (total)	µmol m^{-3}	36	42	42	Van Dorn bottle	PE bottle + HNO_3 + $AuCl_4$	APDC/MIBK extraction; FAAS	NS	NS	10.6 - 1178	178.8	99.6	2	
		Zn (diss)	µmol m^{-3}	36	42	42	Van Dorn bottle	PE bottle	APDC/MIBK extraction; FAAS	NS	NS	15.3 - 428.6	76.5	65.9	0	Note 2
	BOTTOM SEDIMENT (Cores to 60 cm)	Hg	µmol kg^{-1}	31	137	137	Alpine gravity corer	frozen in plexiglass core liners	Hot acid oxidation; cold vapour AAS	± 18%	NS	0.035 - 0.69	0.31	0.34	3	DWB
		As	mmol kg^{-1}	31	122	122	Alpine gravity corer	frozen in plexiglass core liners	HCl digestion + ARsine/AgDDC method (APHA 106A)	± 36%	NS	0.036 - 0.27	0.13	0.13	3	DWB
		Cd	µmol kg^{-1}	31	136	136	Alpine gravity corer	frozen in plexiglass core liners	Aqua regia digestion; FAAS	± 41%	NS	1.8 - 21.6	11.8	11.6	3	DWB
		Cr	mmol kg^{-1}	31	136	136	Alpine gravity corer	frozen in plexiglass core liners	Aqua regia digestion; FAAS	± 15%	NS	0.085 - 1.96	0.45	0.40	3	DWB
		Pb	µmol kg^{-1}	31	135	133	Alpine gravity corer	frozen in plexiglass core liners	Aqua regia digestion; FAAS	± 26%	NS	9.7 - 135.1	100.0	106.2	3	DWB
		Zn	mmol kg^{-1}	31	136	136	Alpine gravity corer	frozen in plexiglass core liners	Aqua regia digestion; FAAS	± 9%	NS	0.20 - 2.16	1.55	1.70	3	DWB
	BIOTA (benthos)	Hg	µmol kg^{-1}	18	41	40	Ponar grab	formalin (some benthos purged)	Hot acid oxidation; cold vapour AAS	ca ± 25%	NS	< 0.05 - 0.65	0.16	0.05	2	WWB, Note 4
		As	µmol kg^{-1}	18	41	26	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 11%	- 2%	< 0.13 - 28.0	12.1	10.7	2	WWB, Note 4
		Cd	µmol kg^{-1}	18	41	41	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 70%	+ 23% - 15%	1.8 - 66.6	12.26	10.68	2	WWB, Note 4
		Cr	mmol kg^{-1}	18	41	39	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 39%	NS	< 0.002 - 0.112	0.040	0.038	2	WWB, Note 4
		Pb	µmol kg^{-1}	18	41	35	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 51%	+ 26%	< 0.48 - 30.6	5.95	4.83	2	WWB, Note 4
		Zn	mmol kg^{-1}	18	41	41	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 11%	- 7% + 2%	0.21 - 1.10	0.40	0.36	2	WWB, Note 4

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
	BIOTA (benthos)	Hg	μmol kg^{-1}	6	7	7	Ponar grab	formalin (some benthos purged)	H_2SO_4/HNO_3 digestion; cold vapour AAS	ca. 25%	NS	0.05 - 8.87	2.00	0.35	2	WWB, Note 4
		As	μmol kg^{-1}	6	5	5	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 11%	- 2%	7.3 - 29.0	17.7	18.4	2	WWB, Note 4
		Cd	μmol kg^{-1}	6	5	5	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 70%	+ 23%	7.1 - 12.5	9.8	9.8	2	WWB, Note 4
		Cr	mmol kg^{-1}	6	5	5	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 39%	NS	0.044 - 0.146	0.088	0.085	2	WWB, Note 4
		Pb	μmol kg^{-1}	6	5	5	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 51%	+ 26%	0.48 - 20.2	11.4	11.6	2	WWB, Note 4
		Zn	mmol kg^{-1}	6	5	5	Ponar grab	formalin (some benthos purged)	$HNO_3/HClO_4/H_2SO_4$ digestion at 210°C; FAAS	ca ± 11%	- 7% + 2%	0.47 - 1.90	1.19	1.12	2	WWB, Note 4
	BIOTA (channel fish)	Hg	μmol kg^{-1}	8	77	46	gillnets	frozen	H_2SO_4/HNO_3 digestion; cold vapour AAS	± 25%	NS	< 0.05 - 1.59	0.25	0.10	2	WWB, Note 4
		As	μmol kg^{-1}	8	77	65	gillnets	frozen	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 11%	- 2%	< 0.13 - 62.5	12.3	2.5	2	WWB, Note 4
		Cd	μmol kg^{-1}	8	77	76	gillnets	frozen	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 70%	+ 23% + 15%	< 0.19 - 26.9	4.13	3.08	2	WWB, Note 4
		Cr	μmol kg^{-1}	8	77	71	gillnets	frozen	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 39%	NS	< 0.09 - 1.69	0.68	0.53	2	WWB, Note 4
		Pb	μmol kg^{-1}	8	77	72	gillnets	frozen	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 51%	+ 26%	< 0.48 - 3.38	1.81	1.93	2	WWB, Note 4
		Zn	μmol kg^{-1}	8	77	77	gillnets	frozen	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 11%	- 7% + 2%	46.4 - 150.1	81.2	80.5	2	WWB, Note 4
77-0009	**SEA WATER**	O_2	mol m^{-3}	16	384	384	in situ	N/A	YSI Model 54 oxygen probe	NS	NS	0.262 - 0.381	0.318	0.321	2	calibration samples by WT
		Alk_t	g m^{-3}	16	96	96	Van Dorn bottle	NS	Hach Kit (titration)	NS	NS	75 - 123	103	103	2	
		NO_3	mmol m^{-3}	16	96	96	Van Dorn bottle	samples frozen at -20°C in plastic bottles	Spectrophotometry (AuA)	NS	NS	0.071 - 4.07	0.93	0.64	2	
		NO_2	mmol m^{-3}	16	96	61	Van Dorn bottle	samples frozen at -20°C in plastic bottles	Spectrophotometry (AuA)	NS	NS	< 0.071 - 0.57	0.17	0.07	2	
		NH_3	mmol m^{-3}	16	96	72	Van Dorn bottle	1 mL/L H_2SO_4 (conc.)	Spectrophotometry (AuA)	NS	NS	1.42 - 10.0	2.46	2.14	2	
		PO_4 (total)	mmol m^{-3}	16	96	96	Van Dorn bottle	1 mL/L H_2SO_4 (conc.)	Spectrophotometry (AuA)	NS	NS	0.097 - 25.5	1.9	1.4	0	Note 2
		Si	mmol m^{-3}	16	96	96	Van Dorn bottle	samples frozen at -20°C in plastic bottles	Spectrophotometry (AuA)	NS	NS	0.8 - 12.4	5.9	4.7	2,0	Note 3
		SPM	g m^{-3}	16	96	96	Van Dorn bottle	Petri dishes (filtration in field)	Gravimetry (GF/C filters)	NS	NS	1.9 - 455.3	52.4	31.5	2	
	BOTTOM SEDIMENTS (Surface Layer)	TC	mol kg^{-1}	16	31	31	Ponar grab	frozen	LECO induction furnace/IR	NS	NS	0.54 - 2.58	1.87	2.08	2	
		OC	mol kg^{-1}	16	31	31	Ponar grab	frozen	LECO induction furnace/IR	NS	NS	0.16 - 1.60	0.90	1.06	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
77-0010	SEA WATER	Cd	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	NaDDC/MIBK extraction; FAAS	NS	NS	0.89 - 34.7	21.4	21.8	0	improper sampling, storage
		Cr	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	NaDDC/MIBK extraction; FAAS	NS	NS	9.6 - 162	92.5	85.6	0	improper sampling, storage
		Cu	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	12.6 - 693	213	197	0	improper sampling, storage
		Pb	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	0.48 - 145	17.8	35.7	0	improper sampling, storage
		Zn	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	62.7 - 4130	3161	3735	0	improper sampling, storage
		Fe	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	23.3 - 304	197	251	0	improper sampling, storage
		Ni	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	NaDDC/MIBK extraction: FAAS	± 5%	NS	32.4 - 345	300	324	0	improper sampling, storage
		Hg	μmol m^{-3}	4	8	8	Niskin PVC sampler	Mason jars	Hot oxidation; cold vapour AAS	NS	NS	0.065 - 3988	499	< 0.75	0	improper sampling, storage
		Ca	mol m^{-3}	4	16	16	Niskin PVC sampler	Mason jars	EDTA titration	ca ± 2.5%	NS	1.85 - 8.91	6.03	7.46	0	improper sampling, storage
		Mg	mol m^{-3}	4	16	16	Niskin PVC sampler	Mason jars	EDTA titration	ca ± 5%	NS	1.24 - 21.3	11.1	13.5	0	improper sampling, storage
		Na	mol m^{-3}	4	16	16	Niskin PVC sampler	Mason jars	Calculated diff. (total cations-K)	ca ± 7%	NS	304.9 - 461.0	398.1	398.9	0	improper sampling, storage
		K	mol m^{-3}	4	16	16	Niskin PVC sampler	Mason jars	FAAS	ca ± 6%	NS	3.58 - 11.0	7.62	9.08	0	improper sampling, storage
		SO_4	mol m^{-3}	4	16	16	Niskin PVC sampler	Mason jars	Precipitation as $BaSO_4$; gravimetry	ca ± 20%	NS	0.312 - 29.5	15.3	19.4	0	improper sampling, storage
		Sulphide	mmol m^{-3}	4	16	0	Niskin PVC sampler	Mason jars	Spectrophotometry	ca ± 2.5%	NS	-	< 1.56	-	0	improper sampling, storage
		Ba	mmol m^{-3}	4	16	16	Niskin PVC sampler	Mason jars	Plasma AA	ca ± 10%	NS	0.026 - 29.1	8.76	0.491	0	improper sampling, storage
	SEDIMENT (drilling fluid pore water)	Cd	μmol m^{-3}	4	10	10	air lift pipe	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	3.56 - 52.5	24.8	21.4	0	improper sampling, storage
		Cr	μmol m^{-3}	4	10	10	air lift pipe	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	19.2 - 119	45.8	39.4	0	improper sampling, storage
		Cu	μmol m^{-3}	4	10	10	air lift pipe	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	92.9 - 1202	522	4.56	0	improper sampling, storage
		Pb	μmol m^{-3}	4	10	10	air lift pipe	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	29.4 - 176	77.4	48.7	0	improper sampling, storage
		Zn	μmol m^{-3}	4	10	10	air lift pipe	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	229 - 4176	2201	2095	0	improper sampling, storage
		Fe	μmol m^{-3}	4	10	10	air lift pipe	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	71.6 - 7126	1590	224	0	improper sampling, storage
		Ni	μmol m^{-3}	4	10	10	air lift pipe	Mason jars	NaDDC/MIBK extraction: FAAS	NS	NS	30.7 - 923	389	137	0	improper sampling, storage
		Hg	μmol m^{-3}	4	10	9	air lift pipe	Mason jars	Hot oxidation; cold vapour AAS	NS	NS	< 0.75 - 4.99	1.17	< 0.75	0	improper sampling, storage
	BOTTOM SEDIMENT (Surface Layer)	Cd	μmol kg^{-1}	4	14	14	air lift pipe	Mason jars	Aqua regia/HF digestion; FAAS	NS	NS	0.89 - 3.47	17.1	15.6	2	improper sampling, storage
		Cr	mmol kg^{-1}	4	14	14	air lift pipe	Mason jars	Aqua regia/HF digestion; FAAS	NS	NS	0.123 - 0.611	0.359	0.356	2	improper sampling, storage

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
77-0010 (cont'd)		Cu	mmol kg^{-1}	4	14	14	air lift pipe	Mason jars	Aqua regia/HF digestion; FAAS	NS	NS	0.049 - 0.393	0.211	0.213	2	
		Pb	µmol kg^{-1}	4	14	14	air lift pipe	Mason jars	Aqua regia/HF digestion; FAAS	NS	NS	0.039 - 0.127	0.069	0.076	2	
		Zn	mmol kg^{-1}	4	14	14	air lift pipe	Mason jars	Aqua regia/HF digestion; FAAS	NS	NS	0.211 - 2.937	0.490	0.265	2	
		Fe	mol kg^{-1}	4	14	14	air lift pipe	Mason jars	Aqua regia/HF digestion; FAAS	NS	NS	2.18 - 0.736	0.494	0.492	2	
		Ni	mmol kg^{-1}	4	14	14	air lift pipe	Mason jars	Aqua regia/HF digestion; FAAS	NS	NS	0.085 - 0.325	0.212	0.192	2	
		Hg	µmol kg^{-1}	4	14	12	air lift pipe	Mason jars	Aqua regia/HF digestion; CVAAS	NS	NS	< 0.05 - 0.977	0.302	0.7	2	
78-0002	SEA WATER	Fe	mmol m^{-3}	24	97	97	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 5%	(as recovery of standard spike) + 4%	0.032 - 3.56	0.45	0.28	0	NPG; Note 2
		Cu	µmol m^{-3}	24	97	97	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 12%	+ 3%	1.57 - 12.75	5.98	5.31	4	
		Zn	µmol m^{-3}	24	97	93	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 4%	- 1%	< 4.59 - 85.7	20.2	13.8	4,0	Note 2
		Cd	µmol m^{-3}	24	97	97	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 3%	- 2%	0.089 - 1.42	0.60	0.53	4	
		Ni	µmol m^{-3}	24	97	97	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 6%	- 5%	2.55 - 57.9	18.4	27.4	4	
		Cr	µmol m^{-3}	24	97	81	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 15%	- 63%	< 0.19 - 37.5	3.46	0.577	4	
		Pb	µmol m^{-3}	24	97	71	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 8%	0%	< 0.048 - 68.1	3.28	0.962	0	Note 2
		Hg	µmol m^{-3}	24	39	39	pumping through acid cleaned PE tubing	in hot, oxidized Pyrex glass	Hot oxidation; CVAAS	± 5%	- 19% + 24%	0.005 - 0.469	0.434	0.015	4,0	Note 2
		Ba	mmol m^{-3}	24	84	84	pumping through acid cleaned PE tubing	in Patterson cleaned PE bottles + NBS HCl	HFA/MIBK extraction; FAAS	± 17%	+ 10%	0.029 - 1.70	0.238	0.218	4	
		Na	mol m^{-3}	24	97	97	Niskin PVC sampler	PE bottles at 4°C	FAAS	± 4%	- 3%	319 - 449	409	419	4	
		K	mol m^{-3}	24	97	97	Niskin PVC sampler	PE bottles at 4°C	FAAS	± 3%	+ 1.5%	6.93 - 10.05	8.95	9.18	4	
		Mg	mol m^{-3}	24	97	97	Niskin PVC sampler	PE bottles at 4°C	FAAS	± 3%	- 2.5%	29.69 - 50.90	45.72	47.12	4	
		Ca	mol m^{-3}	24	97	97	Niskin PVC sampler	PE bottles at 4°C	FAAS	± 2%	- 1.7%	7.16 - 10.1	8.88	9.06	4	
		SO_4	mol m^{-3}	24	97	97	Niskin PVC sampler	PE bottles at 4°C	EDTA titration	± 3%	- 0.8%	18.79 - 31.18	25.35	25.66	4	
		O_2	mol m^{-3}	24	38	38	Niskin PVC sampler	Winkler flask	Micro WT	± 0.001 mol m^{-3}	NS	0.113 - 0.459	0.336	0.319	4	
		pH	pH units	24	49	49	Niskin PVC sampler	glass bottle	pH meter	± 0.05 unit	NS	7.70 - 8.25	7.94	7.90	3	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
78-0002 (cont'd)	BOTTOM SEDIMENTS (Surface Layer)	Fe	mol kg^{-1}	26	124	124	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 3.6%	+ 3% 1%	0.131 - 0.566	0.414	0.440	4	D&B
		Cu	mmol kg^{-1}	26	124	124	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 0.6%	1%	0.092 - 0.730	0.419	0.447	4	D&B
		Zn	mmol kg^{-1}	26	124	124	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1.5%	- 2% 4%	0.535 - 3.33	1.89	2.02	4	D&B
		Cr	mmol kg^{-1}	26	124	124	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 4.4%	- 10% + 1%	. 1.00 - 5.46	2.71	2.39	4	D&B
		Ni	mmol kg^{-1}	26	124	124	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 11%	+ 20% - 15%	0.187 - 2.23	1.09	1.16	4	D&B
		Pb	mmol kg^{-1}	26	124	32	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 7.4%	- 3%	0.014 - 0.082	0.034	< 0.029	4	D&B
		Cd	μmol kg^{-1}	26	124	124	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6.3%	NS	19.6 - 66.7	40.9	41.8	3	D&B
		Hg	μmol kg^{-1}	26	124	124	Ponar grab	frozen	H_2SO_4/HNO_3 digestion	± 4%	NS	0.120 - 0.658	0.369	0.389	3	D&B
		Ba	mmol kg^{-1}	26	124	124	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 21%	- 4%	0.53 - 6.08	1.81	1.01	2	high blank
		Fe	mol kg^{-1}	26	123	123	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 8%	NS	0.039 - 0.460	0.233	0.254	3	D&B
		Cu	mmol kg^{-1}	26	123	123	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 5%	NS	0.028 - 0.45	0.16	0.15	3	D&B
		Zn	mmol kg^{-1}	26	123	123	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 3%	NS	0.19 - 2.35	0.95	0.94	3	D&B
		Cr	mmol kg^{-1}	26	123	123	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 13%	NS	0.015 - 0.19	0.12	0.037	3	D&B
		Ni	mmol kg^{-1}	26	123	123	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 4%	NS	0.051 - 0.34	0.17	0.20	3	D&B
		Pb	μmol kg^{-1}	26	122	122	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 7%	NS	4.8 - 32.8	20.3	21.2	3	D&B
		Cd	μmol kg^{-1}	26	123	88	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 10%	NS	< 0.44 - 13.3	2.6	2.7	3	D&B
		Hg	μmol kg^{-1}	26	122	112	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 25%	NS	0.12 - 0.66	0.37	0.39	3	D&B
		Ba	mmol kg^{-1}	24	112	112	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 15%	NS	0.53 - 6.08	1.181	1.01	3	D&B
	BIOTA (benthos)	Cu	mmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; GFAAS	± 5%	NS	1.02 - 6.58	2.61	2.14	2	D&B
		Zn	mmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; FAAS	± 2%	- 5%	0.78 - 2.62	1.45	1.44	2	D&B
		Cd	μmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; GFAAS	± 5%	NS	1.9 - 21.6	8.6	6.1	2	D&B
		Pb	μmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; GFAAS	± 8%	+ 13%	1.5 - 8.9	4.7	4.7	2	D&B
		Cr	mmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; GFAAS	± 5%	NS	0.02 - 0.87	0.21	0.18	2	D&B
		Ni	mmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; GFAAS	± 6%	NS	0.02 - 0.20	0.08	0.09	2	D&B
		Hg	μmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; CVAAS	± 7%	- 6%	0.19 - 0.36	0.27	0.26	2	D&B
		Fe	mmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; FAAS	± 2%	NS	2.7 - 76.5	30.8	19.0	2	D&B
		Ba	mmol kg^{-1}	7	12	12	Ponar grab	frozen (gut not purged)	HNO_3 digestion; GFAAS	± 14%	NS	0.17 - 4.55	1.02	0.55	2	D&B

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
78-0018	SEA WATER	Fe	mmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; FAAS	± 5%	(as recovery of added spike) + 4%	0.32 - 2.18	1.02	0.57	0	NPG; Note 2
		Cu	µmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 12%	+ 3%	3.46 - 15.4	9.28	9.28	4	
		Zn	µmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; FAAS	± 4%	- 1%	12.2 - 42.8	21.4	13.8	4	
		Cd	µmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 3%	- 2%	0.27 - 0.54	0.41	0.36	4	
		Ni	µmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 6%	- 63%	6.30 - 17.5	12.4	13.1	4	
		Cr	µmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 15%	- 5%	1.53 - 7.69	4.04	4.04	4	
		Pb	µmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 8%	+ 0%	0.23 - 1.17	0.58	0.37	4	
		Hg	µmol m^{-3}	1	9	9	pump through acid cleaned PE tubing	hot oxidized Pyrex bottles	CVAAS	± 5%	- 19% + 24%	0.010 - 0.018	0.014	0.015	4	
		pH	pH units	1	3	3	Niskin PVC sampler	rinsed PE bottles	pH meter	NS	NS	7.70 - 8.00	7.80	7.70	2	
		Na	mol m^{-3}	1	9	9	Niskin PVC sampler	rinsed PE bottles	FAAS	± 4%	- 3%	283 - 443	388	439	4	
		Mg	mol m^{-3}	1	9	9	Niskin PVC sampler	rinsed PE bottles	FAAS	± 3%	- 2.5%	32.3 - 48.5	42.9	47.5	4	
		K	mol m^{-3}	1	9	9	Niskin PVC sampler	rinsed PE bottles	FAAS	± 3%	+ 1.5%	6.06 - 10.0	8.60	9.64	4	
		Ca	mol m^{-3}	1	9	9	Niskin PVC sampler	rinsed PE bottles	FAAS	± 2%	- 1.7%	6.16 - 9.96	8.46	9.28	4	
		SO_4	mol m^{-3}	1	9	9	Niskin PVC sampler	rinsed PE bottles	precip. as $BaSO_4$; gravimetry	± 10%	- 0.8%	17.7 - 26.8	23.6	26.2	4	
	BOTTOM SEDIMENT (Surface Layer)	Fe	mol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 3.6%	- 1% + 3%	0.467 - 0.503	0.494	0.496	4	
		Cu	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 0.6%	0% - 1%	0.44 - 0.50	0.48	0.49	4	
		Zn	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1.5%	- 2% - 4%	2.07 - 2.17	2.12	2.11	4	
		Cr	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 4.4%	- 10% + 1%	2.13 - 3.00	2.63	2.64	4	
		Ni	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 11%	+ 20%	1.47 - 2.03	1.70	1.69	4	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
78-0018 (cont'd)		Pb	µmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 7.9%	- 3%	48 - 68	60	60	4	
		Cd	µmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6.3%	NS	18 - 24	20	20	3	
		Hg	µmol kg^{-1}	4	20	20	Ponar grab	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 4%	NS	0.37 - 0.45	0.41	0.41	3	
	BOTTOM SEDIMENT (Surface Layer)	Fe	mol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 8%	NS	0.116 - 0.158	0.134	0.133	3	DWB
		Cu	mmol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 5%	NS	0.22 - 0.38	0.32	0.33	3	DWB
		Zn	mmol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 3%	NS	0.81 - 1.21	1.00	1.02	3	
		Cr	mmol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 13%	NS	0.04 - 0.09	0.07	0.09	3	DWB
		Ni	mmol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 4%	NS	0.12 - 0.27	0.18	0.17	3	DWB
		Pb	µmol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 7%	NS	29 - 58	48	48	3	DWB
		Cd	µmol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 10%	NS	-	< 0.4	-	3	DWB
		Hg	µmol kg^{-1}	4	20	20	Ponar grab	frozen	24 h leach with 0.5 N HCl; FAAS	± 25%	NS	1 - 5	2	1.7	3	DWB
	BIOTA (benthos)	Fe	mmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; FAAS	± 2%	NS	0.72 4.12	2.42	-	3	DWB
		Cu	mmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; GFAAS	± 5%	NS	0.30 0.91	0.61	-	3	DWB
		Zn	mmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; FAAS	± 2%	- 5%	1.07 1.02	1.05	-	4	DWB
		Cr	mmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; GFAAS	± 5%	NS	0.21 0.18	0.20	-	3	
		Ni	mmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; GFAAS	± 6%	NS	0.15 0.09	0.12	-	3	
		Pb	µmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; GFAAS	± 8%	+ 13%	2.6 2.7	2.7	-	4	
		Cd	µmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; GFAAS	± 5%	NS	14.9 9.6	12.5	-	3	
		Hg	µmol kg^{-1}	1	2	2	Ponar grab	frozen after gut contents purged; 24 h	HNO_3 digestion; CVAAS	± 7%	- 6%	0.30 0.23	0.27	-	4	
78-0019	SEA WATER	Fe	mmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	APDC/NaDDC/Freon extraction, FAAS	± 5%	+ 6% (as recovery of NBS std.)	0.12 - 14.99	4.15	1.06	4.0	Note 2
		Cu	µmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	APDC/NaDDC/Freon extraction; FLAAS	± 12%	+ 3%	3.77 - 87.3	24.9	20.5	4.0	Note 2
		Zn	µmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	APDC/NaDDC/Freon extraction; FAAS	± 4%	- 1%	6.59 - 146.9	41.3	30.6	4.0	Note 2
		Cd	µmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	APDC/NaDDC/Freon extraction; FLAAS	± 3%	- 2%	0.89 - 20.5	11.1	12.0	4.0	Note 2

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
78-0019 (cont'd)		Ni	μmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 6%	- 5%	17.0 - 1068	373	336	4,0	Note 2
		Cr	μmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 13%	- 63%	< 0.19 - 4.42	1.73	1.34	0	Note 2
		Pb	μmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 8%	± 0%	0.097 - 4.87	1.88	1.30	4	Note 2
		Hg	μmol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	Hot oxidation; CVAAS	± 5%	- 19% + 24%	0.015 - 0.947	0.135	0.040	0	Note 2
		Na	mol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	FAAS	± 4%	- 3.0%	326.8 - 413.1	375.3	383.4	4	
		K	mol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	FAAS	± 3%	+ 1.5%	7.06 - 8.87	8.21	8.36	4	
		Mg	mol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	FAAS	± 3%	- 2.5%	37.27 - 47.63	43.40	43.60	4	
		Ca	mol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	FAAS	± 2%	- 1.7%	8.06 - 10.20	9.28	9.41	4	
		SO$_4$	mol m^{-3}	3	33	33	acid-cleaned PE tubing/pump	Patterson-cleaned PE bottle + NBS HCl	Titration with EDTA	± 3%	- 0.8%	30.43 - 70.39	49.57	55.04	4	
		pH	pH units	2	6	6	Niskin bottle	glass bottle	pH meter	NS	NS	7.85 - 8.25	8.00	7.98	2	
		O$_2$	mol m^{-3}	2	6	6	Niskin bottle	Winkler flask	MicroWinkler	± 0.0007	NS	0.196 - 0.330	0.277	0.282	4	
	BOTTOM SEDIMENT	Fe	mol kg^{-1}	2	10	10	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 3.6%	+ 3% - 1%	0.073 - 0.098	0.081	0.073	4	D&B
		Cu	mmol kg^{-1}	2	10	10	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 0.6%	0% - 1%	0.036 - 0.047	0.042	0.042	4	D&B
		Zn	mmol kg^{-1}	2	10	10	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1.5%	- 2% - 4%	0.22 - 0.34	0.27	0.29	4	D&B
		Cr	mmol kg^{-1}	2	10	10	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6.4%	- 10% + 1%	0.031 - 1.70	0.88	1.00	4	D&B
		Ni	mmol kg^{-1}	2	10	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 11%	+ 20% - 15%	-	< 0.14	-	2	D&B
		Pb	μmol kg^{-1}	2	10	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 7.4%	- 3% + 10%	-	< 19.3	-	2	D&B
		Cd	μmol kg^{-1}	2	10	10	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6.3%	NS	12.5 - 16.0	13.3	12.5	3	D&B
		Hg	μmol kg^{-1}	2	10	10	Ponar grab	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 4%	NS	0.035 - 0.050	0.042	0.042	3	D&B
79-0005	SEA WATER	SPM	g m^{-3}	21	65	65	Niskin bottle	PE bottles	Filtration (0.4 μm); gravimetry	NS	NS	0.10 - 16.38	1.49	0.39	2	NPG
		COD	g m^{-3}	21	46	15	Niskin bottle	BOD bottles	Reflux titrimetric method	NS	NS	< 5 - 174	25.4	< 5	2	
	BOTTOM SEDIMENT (Cores to 25 cm)	Fe	mol kg^{-1}	8	17	17	gravity corer	frozen	Aqua regia/HF digestion; FAAS	NS	ca ± 20%	0.086 - 0.52	0.35	0.35	2	D&B
		Zn	mmol kg^{-1}	8	17	17	gravity corer	frozen	Aqua regia/HF digestion; FAAS	NS	ca ± 20%	0.35 - 1.44	1.15	1.27	2	D&B
		Pb	μmol kg^{-1}	8	17	0	gravity corer	frozen	Aqua regia/HF digestion; FAAS	NS	ca ± 20%	-	< 9.7	-	2	D&B
		Ni	mmol kg^{-1}	8	17	17	gravity corer	frozen	Aqua regia/HF digestion; FAAS	NS	ca ± 20%	0.034 - 0.31	0.21	0.22	2	D&B
		Cd	μmol kg^{-1}	8	17	0	gravity corer	frozen	Aqua regia/HF digestion; FAAS	NS	ca ± 20%	-	< 8.9	-	2	D&B

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES <d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
79-0005 (cont'd)		Cr	mmol kg^{-1}	8	17	17	gravity corer	frozen	Aqua regia/HF digestion; FAAS	< 20%	ca ± 20%	0.38 - 0.79	0.60	0.62	2	D&B
		Cu	mmol kg^{-1}	8	17	17	gravity corer	frozen	Aqua regia/HF digestion; FAAS	<20%	ca ± 20%	0.27 - 1.23	0.69	0.61	2	D&B
		Hg	µmol kg^{-1}	8	17	17	gravity corer	frozen	H_2SO_4/HNO_3 digestion; CVAAS	<20%	ca ± 20%	0.12 - 0.26	0.19	0.19	2	D&B
		non-hydrolyzable solids	g kg^{-1}	12	25	25	gravity corer	frozen	HCl digestion + ashing; gravimetry	< 20%	NS	12 - 61	36.3	32	2	D&B
79-0006	BOTTOM SEDIMENT (Surface Layer)	Fe	mol kg^{-1}	47	47	47	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 4%	- 9.7%	0.17 - 0.82	0.58	0.65	4	D&B
		Cu	mmol kg^{-1}	47	47	47	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1%	+ 10.1%	0.06 - 0.63	0.44	0.49	4	D&B
		Zn	mmol kg^{-1}	47	47	47	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 2%	- 3.6%	0.43 - 2.40	1.71	1.84	4	D&B
		Cr	mmol kg^{-1}	47	47	47	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 4%	- 6.4%	0.40 - 1.30	0.97	0.98	4	D&B
		Ni	mmol kg^{-1}	47	47	38	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	- 6.6%	< 0.017 - 0.60	0.40	0.39	4	D&B
		Cd	µmol kg^{-1}	47	47	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	- 22.5%	-	<17.8	-	2	D&B
		Pb	µmol kg^{-1}	47	47	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 5%	+ 10.9%	-	<48.3	-	2	D&B
		Be	mmol kg^{-1}	12	12	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	NS	NS	-	< 0.044	-	2	D&B
		As	mmol kg^{-1}	12	12	12	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	NS	- 24.2%	0.033 - 2.27	0.131	0.120	3	D&B
		Hg	µmol kg^{-1}	47	47	47	Ponar grab	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 4%	+ 9.1%	0.16 - 0.89	0.48	0.46	4	D&B
		Total PCB	µg kg^{-1}	12	12	0	Ponar grab	frozen	Extraction with n-hexane; column chromatography; gas chromatography	NS	NS	-	< 5	-	2	D&B
		Total DDT	nmol kg^{-1}	12	12	0	Ponar grab	frozen	Extraction with n-hexane; column chromatography; gas chromatography	NS	NS	-	< 2.8	-	2	D&B
		Total DDE	nmol kg^{-1}	12	12	0	Ponar grab	frozen	Extraction with n-hexane; column chromatography; gas chromatography	NS	NS	-	< 3.2	-	2	D&B
		TOC	mol kg^{-1}	47	47	47	Ponar grab	frozen	Oxidation (acidic $K_2Cr_2O_7$); titration with Fe ammonium sulphate	± 0.30%	± 3.0%	0.23 - 2.18	1.13	1.04	4	D&B
		oil and grease	g kg^{-1}	12	12	12	Ponar grab	frozen	n-hexane reflux; gravimetry	NS	NS	0.10 - 2.3	0.97	1.05	2	D&B
79-0007	SEA WATER	Fe	µmol m^{-3}	1	8	8	acid-cleaned PE tubing/pump system	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; FAAS	± 3%	NS	24 - 172	76	59	3	NPG
		Cu	µmol m^{-3}	1	8	8	acid-cleaned PE tubing/pump system	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 2%	NS	5.0 - 11.6	7.6	6.6	3	
		Zn	µmol m^{-3}	1	8	8	acid-cleaned PE tubing/pump system	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; FAAS	± 4%	NS	3.2 - 9.3	5.7	5.0	3	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES adj.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
79-0007 (cont'd)		Cd	µmol m^{-3}	1	8	8	acid-cleaned PE tubing/pump system	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 3%	NS	0.38 - 1.04	0.69	0.67	3	
		Ni	µmol m^{-3}	1	8	8	acid-cleaned PE tubing/pump system	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 3%	NS	5 - 27	12	8	3	
		Cr	µmol m^{-3}	1	8	0	acid-cleaned PE tubing/pump system	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 11%	NS	-	< 0.23	-	2	
		Pb	µmol m^{-3}	1	8	8	acid-cleaned PE tubing/pump system	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 8%	NS	0.18 - 1.15	0.52	0.42	3	
		Hg	µmol m^{-3}	1	9	9	acid-cleaned PE tubing/pump system	hot oxidized Pyrex glass bottles	Hot acid oxidation; CVAAS	± 5%	- 19% + 24%	0.15 - 0.46	0.36	0.42	0	Note 2
	BOTTOM SEDIMENT (Surface Layer)	Fe	mol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1%	- 15.1%	0.37 - 0.46	0.43	0.43	4	DWB
		Cu	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1%	+10.1%	0.32 - 0.44	0.38	0.38	4	DWB
		Zn	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 3%	- 3.6%	1.35 - 2.20	1.50	1.49	4	DWB
		Cr	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF extraction; FAAS	± 5%	- 6.4%	0.63 - 1.21	0.91	0.87	4	DWB
		Ni	mmol kg^{-1}	4	20	20	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 9%	- 6.6%	0.26 - 0.48	0.36	0.36	4	DWB
		Pb	µmol kg^{-1}	4	20	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	+ 10.9%	-	< 24	-	2	DWB
		Cd	µmol kg^{-1}	4	20	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 5%	- 22.5%	-	< 9	-	2	DWB
		Hg	µmol kg^{-1}	4	20	20	Ponar grab	frozen	Hot acid oxidation; CVAAS	± 5%	+ 9.1%	0.35 - 0.57	0.47	0.48	4	DWB
		TOC	mol kg^{-1}	4	20	20	Ponar grab	frozen	oxidation (acidic $K_2Cr_2O_7$); titration with Fe ammonium sulphate	± 0.15%	+ 3%	0.62 - 1.12	0.93	0.94	4	DWB
	BIOTA (benthos *Macoma calcarea*)	Fe	mmol kg^{-1}	2	2	2	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; FAAS	± 2%	NS	9.0 - 14.3	11.6	-	3	DWB
		Cu	mmol kg^{-1}	2	2	2	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; FAAS	± 5%	NS	0.33 - 0.39	0.36	-	3	DWB
		Zn	mmol kg^{-1}	2	2	2	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; FAAS	± 2%	- 5%	0.75 - 1.07	0.91	-	4	DWB
		Cr	mmol kg^{-1}	2	2	2	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; FAAS	± 5%	NS	0.29 - 0.31	0.30	-	3	DWB
		Ni	mmol kg^{-1}	2	2	0	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; FAAS	± 6%	NS	-	< 0.017	-	2	DWB
		Pb	µmol kg^{-1}	2	2	2	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; FAAS	± 8%	+ 13%	29 - 39	36	-	4	DWB
		Cd	µmol kg^{-1}	2	2	2	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; FAAS	± 5%	NS	0.9 - 2.7	1.8	-	3	DWB
		Hg	µmol kg^{-1}	2	2	2	Ponar grab	frozen after guts purged for 24 h	HNO_3 digestion; CVAAS	± 7%	- 6%	0.25 - 0.27	0.26	-	4	DWB

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
79-0008	**BOTTOM SEDIMENT** (Surface Layer)	Cu	mmol kg^{-1}	11	11	11	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1%	+ 15%	0.17 - 0.57	0.36	0.30	4	DWB
		Zn	mmol kg^{-1}	11	11	11	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 2%	- 3.6%	0.70 - 6.3	1.81	1.53	4	DWB
		Fe	mol kg^{-1}	11	11	11	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 4%	- 9.7%	0.27 - 0.65	0.43	0.40	4	DWB
		Ni	mmol kg^{-1}	11	11	11	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 4%	- 6.4	0.42 - 1.67	1.03	1.08	4	DWB
		Ni	mmol kg^{-1}	11	11	11	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	- 6.6%	0.10 - 0.58	0.29	0.24	4	DWB
		Cd	µmol kg^{-1}	11	11	8	Ponar grab	frozen	Aqua regia/HF digestion; GFAAS	± 6%	+ 22.5%	< 0.089 - 3.29	1.07	0.98	4	DWB
		Pb	µmol kg^{-1}	11	11	10	Ponar grab	frozen	Aqua regia/HF digestion; GFAAS	± 5%	± 20.9%	< 14.5 - 526	210	179	4	DWB
		Ba	mmol kg^{-1}	11	11	11	Ponar grab	frozen	Aqua regia/HF digestion; GFAAS	± 8%	NS	0.066 - 4.86	1.15	0.70	3	DWB
79-0009	**SEA WATER**	Fe	µmol m^{-3}	1	8	8	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 3%	+ 4%	27 - 162	23	56	4	
		Zn	µmol m^{-3}	1	8	8	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 4%	- 1%	5 - 1158	213	17	0	Note 2
		Cu	µmol m^{-3}	1	8	8	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 2%	+ 3%	8 - 42	17	12	3	
		Cr	µmol m^{-3}	1	8	8	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 1.%	- 34%	0.6 - 48	15	4	3	
		Ni	µmol m^{-3}	1	8	8	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 3%	- 5%	14 - 36	27	23	3	
		Pb	µmol m^{-3}	1	8	8	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	APEDC/NaDDC/Freon extraction; GFAAS	± 8%	+ 20%	0.5 - 10	4	3	4,0	Note 2
		Cd	µmol m^{-3}	1	8	8	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	APDC/NaDDC/Freon extraction; GFAAS	± 3%	- 2%	0.44 - 1.78	0.9	0.9	4	
		SPM	g m^{-3}	1	13	11	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	filtered (0.4 µm); gravimetry	NS	NS	< 1 - 1000	186	15	2	
		Cl	mol m^{-3}	1	15	15	Niskin PVC sampler	Patterson-cleaned PE bottles + NBS HCl	Mohr titration	± 1%	± 2%	442 - 499	457	450	4	
79-0010	**SEA WATER**	O_2	mol m^{-3}	6	16	16	Niskin PVC sampler	Winkler titration bottle	Micro WT	± 0.0007	NS	0.268 - 0.356	0.327	0.340	4	
		O_2	mol m^{-3}	66	293	293	in situ	N/A	YSI Model 57 0.0 Meter	± 0.004	± 0.008	0.23 - 0.38	0.31	0.32	3	
		SPM	g m^{-3}	12	26	26	Niskin PVC sampler	PE bottle	filtered (0.4 µm); gravimetry	± 1 gm^{-3}	NS	11 - 29442	1225	25	4	
		pH	pH units	6	26	26	Niskin PVC sampler	glass bottle	pH meter	± 0.02 unit	NS	7.67 - 8.03	7.89	7.93	3	
80-0003	**SEA WATER**	O_2	mol m^{-3}	5	46	46	Niskin PVC sampler	Winkler titration bottle	Micro WT	± 0.0007 mol m^{-3}	NS	0.257 - 0.412	0.347	0.331	4	
		SPM	g m^{-3}	5	17	17	Niskin PVC sampler	PE bottle	filtered (0.4 µm); gravimetry	± 1 g m^{-3}	NS	14.4 - 77.8	23.6	20.4	4	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
80-0004A	SEA WATER	O_2	mol m^{-3}	8	29	29	Niskin PVC sampler	Winkler titration bottle	Micro Winkler titration	± 0.0007 mol m^{-3}	NS	0.063 - 357	308	313	4	NPG
	BOTTOM SEDIMENT (Surface Layer)	Cu	mmol kg^{-1}	13	26	26	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 0.5%	+ 10.1%	0.22 - 0.68	0.51	0.55	4	D&B
		Zn	mmol kg^{-1}	13	26	26	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 2%	- 3.6%	1.10 - 3.30	2.61	2.75	4	D&B
		Pb	µmol kg^{-1}	13	26	10	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 5%	+ 10.9%	< 24 - 48	28	< 24	4	D&B
		Cr	mmol kg^{-1}	13	26	26	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	- 6.4%	0.56 - 1.35	1.01	1.02	4	D&B
		Cd	µmol kg^{-1}	13	26	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	- 22.5%	-	< 4.4	-	2	D&B
		Ni	mmol kg^{-1}	13	26	26	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 9%	- 6.6%	0.24 - 0.97	0.72	0.77	4	D&B
		Hg	µmol kg^{-1}	13	26	26	Ponar grab	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 4%	+ 9.1%	0.29 - 1.73	0.70	0.55	4	D&B
		Fe	mol kg^{-1}	13	26	26	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1%	- 15.1%	0.32 - 0.91	0.73	0.80	4	D&B
		TOC	mol m^{-3}	13	13	13	Ponar grab	frozen	Oxidation (acidic $K_2Cr_2O_7$), titration with Fe ammonium sulphate	± 0.15%	± 3.0%	0.31 - 1.42	1.04	1.08	4	D&B
80-0004B	SEA WATER	O_2	mol m^{-3}	12	49	49	Niskin PVC sampler	Winkler flask	Micro WT	± 0.0007 mol m^{-3}	NS	0.206 - 0.327	0.277	0.268	4	
80-0004C	SEA WATER	O_2	mol m^{-3}	11	47	47	Niskin PVC sampler	Winkler flask	Micro Winkler titration	± 0.0007 mol m^{-3}	NS	0.179 - 400	0.332	0.357	4	
		SPM	g m^{-3}	12	46	46	Niskin PVC sampler	rinsed PE bottle	filtered (0.4 µm); gravimetry	± 1 gm^{-3}	NS	8.6 - 60.3	21.0	15.1	3	
	BOTTOM SEDIMENT	Cu	mmol kg^{-1}	19	38	38	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 0.5%	± 10.1%	0.079 - 0.629	0.494	0.456	4	D&B
		Zn	mmol kg^{-1}	19	38	38	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 2%	- 3.6%	0.64 - 3.17	2.42	2.39	4	D&B
		Pb	µmol kg^{-1}	19	38	6	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 5%	+ 10.9%	< 24 - 29	25	< 24	4	D&B
		Cr	mmol kg^{-1}	19	38	38	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	- 6.4%	0.44 - 1.71	1.20	1.23	4	D&B
		Cd	µmol kg^{-1}	19	38	0	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 6%	- 22.5%	-	< 4.4	-	2	D&B
		Ni	mmol kg^{-1}	19	38	38	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 9%	- 6.6%	0.051 - 1.87	0.70	0.68	4	D&B
		Hg	µmol kg^{-1}	19	38	18	Ponar grab	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 4%	+ 9.1%	0.135 - 1.735	0.510	0.404	4	D&B
		Fe	mol kg^{-1}	19	38	38	Ponar grab	frozen	Aqua regia/HF digestion; FAAS	± 1%	- 15.1%	0.197 - 0.929	0.682	0.736	4	D&B
		TOC	mol kg^{-1}	19	38	38	Ponar grab	frozen	Oxidation (acidic $K_2Cr_2O_7$), titration with Fe ammonium sulphate	± 0.15%	± 3.0%	0.54 - 1.38	1.05	1.05	4	D&B
		Oil and grease	mg kg^{-1}	19	38	38	Ponar grab	frozen	Reflux with n-hexane gravimetry	NS	NS	30 - 227	110	85	2	D&B
80-0004D	SEA WATER	O_2	mol m^{-3}	11	47	47	Niskin PVC sampler	Winkler flask	Micro WT	± 0.0007 mol m^{-3}	NS	0.089 - 0.458	0.361	0.396	4	
		SPM	g m^{-3}	12	46	46	Niskin PVC sampler	rinsed PE bottle	filtered (0.4 µm); gravimetry	± 1 g m^{-3}	NS	4.8 - 63.8	24.7	21.3	3	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
80-0005	DREDGED SEDIMENT	Cu	mmol kg^{-1}	13	13	13	NS	not frozen	Aqua regia/HF digestion; FAAS	± 1% (2σ)	+ 10.1%	0.019 - 0.151	0.076	0.047	1	NPG; D&B; storage suspect
		Zn	mmol kg^{-1}	13	13	13	NS	not frozen	Aqua regia/HF digestion; FAAS	± 3% (2σ)	- 3.6%	0.36 - 0.90	0.49	0.44	1	D&B; storage suspect
		As	mmol kg^{-1}	13	13	13	NS	not frozen	Aqua regia/HF digestion; FAAS	NS	- 24.2%	0.08 - 0.19	0.15	0.16	1	D&B; storage suspect
		Pb	µmol kg^{-1}	13	13	0	NS	not frozen	Aqua regia/HF digestion; FAAS	± 10% (2σ)	+ 10.9%	-	< 24	-	1	D&B; storage suspect
		Cd	µmol kg^{-1}	13	13	0	NS	not frozen	Aqua regia/HF digestion; FAAS	± 11% (2σ)	- 22.5%	-	< 4.4	-	1	D&B; storage suspect *
		Hg	µmol kg^{-1}	13	13	13	NS	not frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 7% (2σ)	+ 9.1%	0.085 - 1.45	0.28	0.16	1	D&B; storage suspect
		TOC	mol kg^{-1}	13	13	13	NS	not frozen	Oxidation (acidic $K_2Cr_2O_7$); titration with Fe ammonium sulphate	± 0.30% (2σ)	± 3.0%	0.75 - 7.21	0.96	0.24	1	D&B; storage suspect
		oil and grease	mg kg^{-1}	13	13	13	NS	not frozen	Reflux with n-hexane; gravimetry	NS	NS	45 - 2120	285	83	2	D&B
		oxygen uptake rate	mmol g^{-1} d^{-1}	13	13	13	NS	not frozen	7 day sampling of serial BOD bottle samples	NS	NS	1.38 - 11.96	1.65	1.96	2	D&B
80-0006	BOTTOM SEDIMENT	Hg	µmol kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 5%	NS	0.05 - 0.57	0.34	0.38	3	NPG; D&B
		As	µmol kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	$HCl/K_2S_2O_8$ digestion; GFAAS (hydride method)	± 5%s	NS	29.9 - 184	118	131	3	D&B
		Cd	µmol kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	Aqua regia digestion; FAAS	± 4%	NS	4.85 - 15.52	10.41	10.59	3	D&B
		Cr	mmol kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	Aqua regia digestion; FAAS	± 2%	NS	0.060 - 0.436	0.244	0.238	3	D&B
		Pb	µmol kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	Aqua regia digestion; FAAS	± 1%	NS	31.4 - 139	108	125	3	D&B
		Zn	mmol kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	Aqua regia digestion; FAAS	± 3%	NS	0.34 - 2.24	1.62	1.92	3	D&B
		volatile solids	g kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	ashed at 550°C	± 10%	NS	4.0 - 101	54.8	55.5	3	D&B
		oil and grease	mg kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	hexane Soxhlet extraction; gravimetry	± 26%	NS	65 - 660	268	255	3	D&B
		BOD	mmol kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	loss of oxygen content after 5 d incubation at 20°C	NS	NS	0.89 - 33.0	15.9	16.1	2	D&B
		COD	g kg^{-1}	30	60	60	Ponar grab	refrigerated then frozen	Dichromate oxidation titration with Fe ammonium sulphate	± 5%	NS	0.41 - 8.92	3.82	4.14	3	D&B
	BIOTA (benthos)	Hg	µmol kg^{-1}	20	35	32	Ponar grab	formalin	H_2SO_4/HNO_3 digestion; CVAAS	± 32%	NS	0.035 - 2.01	0.50	0.42	2	W&B, Note 4
		As	µmol kg^{-1}	20	24	24	Ponar grab	formalin	$HNO_3/HClO_4H_2SO_4$ digestion; FAAS	± 12%	- 21% - 15.4%	8.3 - 62.9	26.4	24.0	2	W&B, Note 4
		Cd	µmol kg^{-1}	20	24	24	Ponar grab	formalin	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 6%	+ 4%	3.02 - 35.5	14.4	12.9	2	W&B, Note 4
		Cr	mmol kg^{-1}	20	24	24	Ponar grab	formalin	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 12%	- 63%	0.060 - 0.448	0.158	0.136	2	W&B, Note 4
		Pb	µmol kg^{-1}	20	24	24	Ponar grab	formalin	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 2%	+ 307% + 362%	1.8 - 7.3	3.6	3.3	2	W&B, Note 4
		Zn	mmol kg^{-1}	20	23	23	Ponar grab	formalin	$HNO_3/HClO_4/H_2SO_4$ digestion; FAAS	± 6%	+ 11% - 15%	0.24 - 0.80	0.41	0.38	2	W&B, Note 4

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
80-0016	**SEA WATER**	O$_2$	mol m^{-3}	1	10	7	in situ	N/A	YSI Model 51B DO meter	NS	NS	0.40 - 0.42	0.41	0.41	2	
81-0003A	**SEA WATER**	Zn	µmol m^{-3}	3	17	17	Niskin PVC sampler	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 6%	NS	7.8 - 17.1	12.2	11.3	3	NPG; samples filtered (0.4 µm)
		Cu	µmol m^{-3}	3	18	18	Niskin PVC sampler	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 2%	NS	5.4 - 7.0	6.4	6.4	3	samples filtered (0.4 µm)
		Hg	µmol m^{-3}	3	17	17	Niskin PVC sampler	Patterson-cleaned 1-L PE bottles	hot acid oxidation; CVAAS	± 30%	NS	0.05 - 0.47	0.175	0.110	2	samples filtered (0.4 µm)
		Cd	µmol m^{-3}	3	18	18	Niskin PVC sampler	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 3%	NS	0.36 - 0.92	0.59	0.56	3	samples filtered (0.4 µm)
		Cr	µmol m^{-3}	3	18	18	Niskin PVC sampler	Patterson-cleaned 1-L PE bottles	Co-precip. with Fe hydroxide; GFAAS	± 5%	NS	1.8 - 3.4	2.8	2.9	3	samples filtered (0.4 µm)
		O$_2$	mol m^{-3}	3	9	9	Niskin PVC sampling bottle	Winkler flask	Micro WT	± 0.0007	NS	0.328 - 0.349	0.339	0.342	3	
		PO$_4$	mmol m^{-3}	3	18	18	Niskin PVC sampling bottle	frozen in acid-washed glass tubes	Technicon Method 158-71W; AuA	± 0.3%	± 3%	1.26 - 1.44	1.37	1.39	4	
		NO$_3$	mmol m^{-3}	3	18	18	Niskin PVC sampling bottle	frozen in acid-washed plastic tubes	Technicon Method 186-72W; AuA	± 0.4%	± 2%	7.2 - 10.1	8.67	8.8	4	includes nitrite
		Si	mmol m^{-3}	3	17	17	Niskin PVC sampling bottle	frozen in acid-washed plastic tubes	Technicon Method 155-71W; AuA	± 0.3%	± 3%	18.4 - 25.3	22.54	22.8	4,0	Note 3
		SPM	g m^{-3}	3	18	16	Niskin PVC sampling bottle	1-L PE bottles (2 h max.)	filtration (0.4 µm); gravimetry	NS	NS	0.0 - 0.7	0.35	0.4	2	
81-0003B	**SEA WATER**	Zn	µmol m^{-3}	3	18	18	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 6%	NS	5.1 - 16.4	7.8	6.8	3	
		Cu	µmol m^{-3}	3	18	18	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 2%	NS	7.1 - 7.8	7.3	7.3	3	
		Hg	µmol m^{-3}	3	16	16	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	hot acid oxidation CVAAS	± 30%	NS	0.02 - 1.08	1.92	0.059	2	
		Cd	µmol m^{-3}	3	18	18	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 3	NS	0.50 - 1.09	0.61	0.54	3	
		Cr	µmol m^{-3}	3	16	16	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	co-precip. with Fe hydroxide; GFAAS	± 5%	NS	2.6 - 3.3	2.9	2.9	3	
		O$_2$	mol m^{-3}	3	9	9	Niskin PVC sampling bottle	Winkler flask	Micro WT	± 0.0007	NS	0.360 - 0.410	0.383	0.384	4	
		PO$_4$	mmol m^{-3}	3	18	18	Niskin PVC sampling bottle	frozen in acid-washed glass tubes	Technicon Method 158-71W; AuA	± 0.3%	± 3%	0.97 - 1.35	1.16	1.17	4	
		NO$_3$	mmol m^{-3}	3	18	18	Niskin PVC sampling bottle	frozen in acid-washed plastic tubes	Technicon Method 186-72W; AuA	± 0.4%	± 2%	8.6 - 14.2	10.5	9.6	4	includes nitrite
		Si	mmol m^{-3}	3	17	17	Niskin PVC sampling bottle	frozen in acid-washed plastic tubes	Technicon Method 155-71W; AuA	± 0.3%	± 3%	15.9 - 34.6	26.5	25.7	4,0	Note 3
		SPM	g m^{-3}	3	18	13	Niskin PVC sampling bottle	1-L PE bottles (2 h max.)	filtration (0.4 µm); gravimetry	NS	NS	0.0 - 2.0	0.5	0.2	2	
81-0003C	**SEA WATER**	Zn	µmol m^{-3}	3	18	18	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 6%	NS	6.9 - 17.7	10.1	8.8	3	
		Cu	µmol m^{-3}	3	18	18	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 2%	NS	7.1 - 16.9	10.1	7.7	3	
		Hg	µmol m^{-3}	3	18	18	acid-cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	hot acid oxidation; CVAAS	± 30%	NS	0.017 - 0.110	0.036	0.024	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
81-0003C (cont'd)		Cd	µmol m⁻³	3	18	18	acid-cleaned PE tubing/pump	Patterson cleaned 1-L PE bottles	APDC/DDDC/Freon extraction; GFAAS	± 3%	NS	0.30 - 0.61	0.51	0.54	3	
		Cr	µmol m⁻³	18	18	18	acid cleaned PE tubing/pump	Patterson-cleaned 1-L PE bottles	co-precip. with Fe hydroxide; GFAAS	± 2%	NS	2.1 - 3.8	2.8	2.8	3	
		O_2	mol m⁻³	3	9	9	Niskin PVC sampling bottle	Winkler flask	Micro WT	± 0.0007	NS	0.328 - 0.349	0.339	0.342	4	
		PO_4	mmol m⁻³	3	18	18	Niskin PVC sampling bottle	frozen in acid-washed glass tubes	Technicon Method 158-71W; AuA	± 0.3%	± 3%	1.26 - 1.44	1.37	1.39	4	
		NO_3	mmol m⁻³	3	18	18	Niskin PVC sampling bottle	frozen in acid-washed plastic tubes	Technicon Method 186-72W; AuA	± 0.4%	± 2%	7.2 - 10.1	8.7	8.8	4	includes nitrite
		Si	mmol m⁻³	3	17	17	Niskin PVC sampling bottle	frozen in acid-washed plastic tubes	Technicon Method 155-71W; AuA	± 0.3%	± 3%	18.4 - 25.3	22.5	22.8	4,0	Note 3
		SPM	g m⁻³	3	18	16	Niskin PVC sampling bottle	1-L PE bottles (ca 48 h)	filtration (0.4 µm); gravimetry	NS	NS	0.0 - 0.7	0.4	0.4	2	
81-0004	**BOTTOM SEDIMENT** (Cores to >10 m)	Cu	mmol kg⁻¹	9	50	50	core	frozen	HF/aqua regia digestion; FAAS	± 2.3% ± 3.4%	- 2% - 3%	0.07 - 0.80	0.41	0.46	4	samples from 1 m and 10 m along core; DWB
		Cd	µmol kg⁻¹	9	50	50	core	frozen	HF/aqua regia digestion; GFAAS	± 0.14% ± 0.06%	- 14% + 12%	0.44 - 6.41	3.383	4.18	4	samples from 1 m and 10 m along core; DWB
		Cr	mmol kg⁻¹	9	50	50	core	frozen	HF/aqua regia digestion; GFAAS	± 7% ± 6%	- 46% - 42%	0.33 - 2.85	1.76	1.75	3	samples from 1 m and 10 m along core; DWB
		Zn	mmol kg⁻¹	9	50	50	core	frozen	HF/aqua regia digestion; GFAAS	± 12% ± 12%	- 3% - 8%	0.37 - 14.04	2.77	2.37	4	samples from 1 m and 10 m along core; DWB
		Ni	mmol kg⁻¹	9	50	50	core	frozen	HF/aqua regia digestion; GFAAS	± 3% ± 3%	± 1.5% ± 6%	0.10 - 0.86	0.53	0.59	4	samples from 1 m and 10 m along core; DWB
		Hg	µmol kg⁻¹	9	50	50	core	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 15% ± 12%	± 5% ± 3%	0.03 - 0.77	0.34	0.37	4	samples from 1 m and 10 m along core; DWB
		HEC	mg kg⁻¹	9	50	50	core	frozen	Reflux with n-hexane gravimetry	NS	NS	9 - 6144	314	100	2	samples from 1 m and 10 m along core; DWB
81-0005	**BOTTOM SEDIMENT** (Surface Layer) (uncontaminated)	Aliphatic HC	mg kg⁻¹	2	2	2	Ponar grab	Al cans; frozen	Soxhlet extraction; GPAC; FID-GC	NS	NS	12.8 - 36.3	24.7	24.7	2	NPG; DWB
	BEACH SEDIMENT (contaminated)	Aliphatic HC	mg kg⁻¹	2	2	2	metal spoon	Al cans; frozen	Soxhlet extraction; GPAC; FID-GC	NS	NS	14.6 - 69.7	42.2	42.2	2	DWB
81-0010	**BOTTOM SEDIMENT** (Surface Layer)	Cu	mmol kg⁻¹	2	9	9	NS	frozen	HF/aqua regia digestion; FAAS	± 2.3% ± 3.4%	- 2% - 3%	0.082 - 0.299	0.138	0.124	4	DWB
		Zn	mmol kg⁻¹	2	9	9	NS	frozen	HF/aqua regia digestion; FAAS	± 12% ± 12%	- 3% - 8%	0.40 - 1.38	0.63	0.52	4	DWB
		Cr	mmol kg⁻¹	2	9	9	NS	frozen	HF/aqua regia digestion; FAAS	± 7% ± 6%	- 46% - 42%	0.36 - 1.36	0.69	0.44	3	DWB
		Ni	mmol kg⁻¹	2	9	9	NS	frozen	HF/aqua regia digestion; GFAAS	± 3% ± 3%	± 1.5% ± 6%	0.160 - 0.426	0.221	0.204	4	DWB

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY INFORMATION					MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
81-0010 (cont'd)		Cd	μmol kg^{-1}	2	9	9	NS	frozen	HF/aqua regia digestion; GFAAS	± 0.14% ± 0.06%	- 14% + 12%	0.53 - 2.14	1.25	0.98	4	DWB
		Pb	μmol kg^{-1}	2	9	9	NS	frozen	HF/aqua regia digestion; GFAAS	± 2% ± 2%	- 28% - 30%	32.4 - 49.7	40.1	38.6	3	DWB
		As	mmol kg^{-1}	2	9	9	NS	frozen	HF/aqua regia digestion; GFAAS	± 1% ± 2%	- 1% - 3%	0.075 - 0.151	0.116	0.121	4	DWB
		V	mmol kg^{-1}	2	9	9	NS	frozen	HF/aqua regia digestion; GFAAS	± 6% ± 6%	+ 18% + 10%	0.18 - 1.24	0.49	0.37	4	DWB
		Be	mmol kg^{-1}	2	9	9	NS	frozen	HF/aqua regia digestion; FAAS	± 0.2% ± 0.2%	+ 79%	0.09 - 0.13	0.10	0.09	3	DWB
		Fe	mmol kg^{-1}	2	9	9	NS	frozen	HF/aqua regia digestion; FAAS	± 0.3% ± 0.3%	+ 0.3% - 5.1%	145 - 390	186	161	4	DWB
		Hg	μmol kg^{-1}	2	9	9	NS	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 15% ± 12%	+ 5% + 3%	0.065 - 0.110	0.085	0.080	4	DWB
		HEC	mg kg^{-1}	2	9	9	NS	frozen	Reflux with n-hexane; gravimetry	NS	NS	5 - 15	11	10	2	DWB
81-0011	**BOTTOM SEDIMENT** (Surface Layer)	Hg	μmol kg^{-1}	5	15	15	Ponar grab	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 15% ± 11%	+ 2% - 4%	0.035 - 0.274	0.134	0.085	4	NPG; DWB
		Ni	mmol kg^{-1}	5	15	15	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 3% ± 3%	+ 1.5% + 6%	0.17 - 0.92	0.53	0.63	4	DWB
		Zn	mmol kg^{-1}	5	15	15	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 12% ± 12%	- 8% - 3%	0.46 - 2.62	1.47	1.61	4	DWB
		Cu	mmol kg^{-1}	5	15	15	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 3% ± 3%	- 5% - 2%	0.066 - 0.693	0.324	0.346	4	DWB
		Cr	mmol kg^{-1}	5	15	15	Ponar grab	frozen	HF/aqua regia digestion; FAAS	± 7% ± 6%	- 46% - 42%	0.62 - 2.19	1.47	1.58	4	DWB
		HEC	mg kg^{-1}	5	15	15	Ponar grab	frozen	Reflux with n-hexane; gravimetry	NS	NS	10.0 - 90.0	38.3	29.9	2	DWB
81-0012	**BOTTOM SEDIMENT** (Surface Layer)	HEC	mg kg^{-1}	29	29	29	Ponar grab	frozen	Reflux with n-hexane; gravimetry	NS	NS	13 - 194	88.3	86	2	DWB; FID-GC on selected samples
81-0013	**SEA WATER**	O_2	mol m^{-3}	13	80	80	Niskin PVC sampler	Winkler flask + $MnCl_2$ + NaI	Micro WT	± 0.0007	NS	0.013 - 0.403	0.207	0.187	3	NPG
		SPM	g m^{-3}	13	153	153	Niskin PVC sampler	ca 8-18 h	filtration (0.4 μm); gravimetry	± 3.4-4.7%	NS	3.2 - 366.3	52.1	50.7	3	
81-0014	**BOTTOM SEDIMENT** (Surface Layer)	HEC	mg kg^{-1}	1	24	24	NS	frozen	Reflux with n-hexane; gravimetry	NS	NS	1 - 637	83	31	2	DWB; FID-GC on selected samples
81-0015A	**ICE CORES**	PO_4	mmol m^{-3}	1	52	52	SIPRE corer	ice core thawed just prior to analysis	Technicon Method 58-71W; AuA	ca ± 0.3%	ca ± 3%	0.6 - 5.76	0.88	0.14	2	
		NO_3	mmol m^{-3}	1	55	49	SIPRE corer	ice core thawed just prior to analysis	Technicon Method 186-72W; AuA	ca ± 0.4%	ca ± 2%	< 0.1 - 19.4	2.1	0.3	2	includes nitrite
		Si	mmol m^{-3}	1	49	43	SIPRE corer	ice core thawed just prior to analysis	Technicon Method 155-71W; AuA	ca ± 0.3%	ca ± 3%	< 0.1 - 16.8	4.6	0.9	2,0	Note 3
		Chl a	mg m^{-3}	1	48	48	SIPRE corer	ice core thawed just prior to analysis	S & P	NS	NS	0.01 - 164.6	29.46	1.3	2	
		Phaeo	mg m^{-3}	1	48	47	SIPRE corer	ice core thawed just prior to analysis	S & P	NS	NS	< 0.01 - 123.80	21.42	0.24	2	

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES				DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range		Mean	Median		
81-0015A (cont'd)	SEA WATER	O_2	mol m^{-3}	1	20	20	Niskin PVC sampler	Winkler flask + $MnCl_2$ + NaI	Micro WT	± 0.0007	NS	0.35 -	0.62	0.47	0.47	4	
		PO_4	mmol m^{-3}	1	30	30	Niskin PVC sampler	frozen	Technicon Method 158-71W; AuA	± 0.3%	± 3%	0.21 -	1.52	1.07	1.13	4	
		NO_3	mmol m^{-3}	1	30	30	Niskin PVC sampler	frozen	Technicon Method 186-72W; AuA	± 0.4%	± 2%	6.2 -	15.4	9.6	9.0	4	includes nitrite
		Si	mmol m^{-3}	1	38	28	Niskin PVC sampler	frozen	Technicon Method 155-71W; AuA	± 0.3%	± 3%	16.6 -	49.7	26.8	25.3	4,0	Note 3
		Chl a	mg m^{-3}	1	24	23	Niskin PVC sampler	filtered; filters frozen	S & P	NS	NS	< 0.01 -	2.00	0.31	0.09	2	
		Phaeo	mg m^{-3}	1	24	24	Niskin PVC sampler	filtered; filters frozen	S & P	NS	NS	0.05 -	0.65	0.21	0.13	2	
81-0015B	ICE CORES	PO_4	mmol m^{-3}	1	18	18	SIPRE corer	ice core thawed just prior to analysis	Technicon Method 158-71W; AuA	ca ± 0.3%	ca ± 3%	0.05 -	0.58	0.21	0.16	4	
		NO_3	mmol m^{-3}	1	18	17	SIPRE corer	ice core thawed just prior to analysis	Technicon Method 186-72W; AuA	ca ± 0.4%	ca ± 2%	< 0.1 -	1.1	0.7	0.7	4	includes nitrite
		Si	mmol m^{-3}	1	16	16	SIPRE corer	ice core thawed just prior to analysis	Technicon Method 155-71W; AuA	ca ± 0.3%	ca ± 3%	0.2 -	3.7	1.8	1.4	4,0	Note 3
		Chl a	mg m^{-3}	1	9	9	SIPRE corer	ice core thawed just prior to analysis	S & P	NS	NS	0.17 -	14.50	2.89	0.93	2	
		Phaeo	mg m^{-3}	1	9	9	SIPRE corer	ice core thawed just prior to analysis	S & P	NS	NS	0.12 -	4.37	0.75	0.30	2	
	SEA WATER	PO_4	mmol m^{-3}	1	36	36	Niskin PVC sampler	frozen	Technicon Method 158-71W; AuA	± 0.3%	± 3%	0.27 -	1.66	0.75	0.80	4	
		NO_3	mmol m^{-3}	1	36	36	Niskin PVC sampler	frozen	Technicon Method 186-72W; AuA	± 0.4%	± 2%	0.6 -	30.3	12.1	12.0	4	includes nitrite
		Si	mmol m^{-3}	1	36	36	Niskin PVC sampler	frozen	Technicon Method 155-71W; AuA	± 0.3%	± 3%	29.7 -	59.4	38.9	34.6	4,0	Note 3
81-0018	BOTTOM SEDIMENT (Surface Layer)	Be	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; FAAS	± 5%	+ 92%	0.06 -	0.22	0.18	0.20	1	D&B; poor accuracy
		V	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; FAAS	± 6 - ± 11%	+ 9%	0.27 -	4.22	2.05	1.92	4	D&B
		Cr	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; FAAS	± 5%	- 55%	0.44 -	2.40	1.61	1.88	1	D&B; poor accuracy
		Fe	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; FAAS	± 3 - ± 8%	+ 46%	165 -	770	484	530	1	D&B; poor accuracy
		Ni	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; GFAAS	± 10%	- 14%	0.09 -	1.18	0.58	0.58	4	D&B
		Cu	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; FAAS	± 2 - ± 6%	- 10%	0.057 -	0.582	0.315	0.362	4	D&B
		Zn	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; FAAS	± 1 - ± 5%	- 11%	0.26 -	2.50	1.57	1.83	4	D&B
		As	mmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; GFAAS	± 6 - ± 15%	- 4%	0.032 -	0.234	0.146	0.142	4	D&B
		Cd	µmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; GFAAS	± 3%	0%	0.64 -	3.83	1.88	2.23	4	D&B
		Hg	µmol kg^{-1}	19	52	52	Van Veen grab	frozen	H_2SO_4/HNO_3 digestion; CVAAS	± 3%	- 50%	0.030 -	0.753	0.269	0.299	1	D&B; poor accuracy

DATA SET NO.	MEDIUM SAMPLED	MEASUREMENT		NO. STATIONS	NO. SAMPLES	NO. SAMPLES >d.l.	METHODOLOGY		INFORMATION			MEASURED VALUES			DATA RATING	REMARKS
		Qty	Units				Collection	Storage	Analysis	Precision	Accuracy	Range	Mean	Median		
		Pb	μmol kg^{-1}	19	52	52	Van Veen grab	frozen	Aqua regia/HF digestion; GFAAS	± 7%	0%	33.8 - 115.9	73.9	72.5	4	D&B
		HEC	mg kg^{-1}	19	37	37	Van Veen grab	frozen in Al cans	reflux with n-hexane, gravimetry	NS	NS	< 5 - 65	19.1	15	2	D&B
		TOC	mg kg^{-1}	19	37	35	Van Veen grab	frozen in Al cans	oxidation (acidic $K_2Cr_2O_7$), titration with Fe amm. sulphate	NS	NS	0.00 - 1.22	0.59	0.68	2	D&B
		Aliphatic HC	mg kg^{-1}	12	12	12	Van Veen grab	frozen in Al cans	soxhlet extraction; GPAC, GC	NS	NS	1.3 - 80.3	30.3	14.2	2	D&B
		PAH	mg kg^{-1}	12	12	12	Van Veen grab	frozen in Al cans	soxhlet extraction; GPAC, GC	NS	NS	1.0 - 40.1	8.1	5.05	2	D&B

9. DATA INVENTORY TABLE 3.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
52-0001	18	69° 27.3'	133° 02.2'	11	1952	Jul.	25	1723	4	7
	19	69° 27.3'	133° 02.2'	[a] 5	1952	Jul.	25	2130	4	[a] 7
	20	69° 29.0'	133° 07.1'	5	1952	Jul.	26	1700	3	4
	21	69° 32.0'	133° 11.1'	5	1952	Jul.	26	1806	3	4
	22	69° 34.9'	133° 12.0'	5	1952	Jul.	26	1850	3	4
	23	69° 39'	133° 17.5'	5	1952	Jul.	25	1952	3	5
	24	69° 40'	133° 32.5'	5	1952	Jul.	26	2120	3	5
	25	69° 40.0'	133° 47.9'	5	1952	Jul.	26	2137	3	4
	26	69° 40.0'	133° 02.0'	6	1952	Jul.	27	0115	2	3
	27	69° 47.9'	133° 56.0'	5	1952	Jul.	27	0325	3	5
	28	69° 43.8'	133° 47.3'	5	1952	Jul.	27	0505	3	5
	29	69° 40.7'	133° 16.0'	5	1952	Jul.	27	0702	3	5
	30	69° 40.4'	132° 59.0'	5	1952	Jul.	27	0808	3	5
	31	69° 49.9'	132° 42.9'	11	1952	Jul.	27	1750	4	10
	32	69° 52.5'	132° 15.9'	15	1952	Jul.	27	1937	5	14
	33	70° 03.8'	131° 40.2'	15	1952	Jul.	27	2115	5	14
	34	70° 11.8'	131° 03.1'	15	1952	Jul.	27	2325	5	14
	35	70° 23.3'	130° 16.9'	15	1952	Jul.	28	0120	5	15
	36	70° 29.8'	130° 43.9'	15	1952	Jul.	28	0425	5	15
	37	70° 38.0'	129° 00'	16	1952	Jul.	28	0635	5	15
	38	70° 40.0'	128° 10'	22	1952	Jul.	28	0915	6	20
	42	70° 40'	128° 10'	24	1952	Jul.	28	2305	6	20
	43	70° 40'	128° 10'	24	1952	Jul.	29	0100	6	20
	47	70° 45.0'	127° 57.5'	62	1952	Jul.	30	2038	11	60
	48	70° 56.3'	127° 28.0'	150	1952	Jul.	30	2315	14	145
	49	71° 08.1'	126° 58.1'	278	1952	Jul.	31	0220	16	260
	50	71° 20.1'	126° 27.9'	428	1952	Jul.	31	0642	21	420
	51	71° 31.8'	125° 56.4'	366	1952	Jul.	31	1148	19	350
	52	71° 43.2'	125° 27.0'	219	1952	Jul.	31	1358	16	200
	53	71° 48.2'	125° 13.0'	179	1952	Jul.	31	1602	15	175
	54	71° 56.8'	125° 58.5'	26	1952	Aug.	2	1815	6	18
	55	71° 56.8'	125° 58.5'	22	1952	Aug.	2	2020	6	20
	55A	71° 57.2'	126° 00'	22	1952	Aug.	2	2020	6	20
	56	71° 57.8'	125° 59'	22	1952	Aug.	2	1940	4	7
	57	71° 54'	126° 00.5'	152	1952	Aug.	2	2113	11	75
	59	71° 54'	126° 10.5'	402	1952	Aug.	3	0130	20	390
	60	71° 54.2'	127° 43'	380	1952	Aug.	3	0448	20	370
	61	71° 55.5'	128° 16'	373	1952	Aug.	3	0732	19	350
	62	72° 05.8'	128° 16.2'	366	1952	Aug.	3	1100	19	350
	63	72° 16'	128° 17'	336	1952	Aug.	3	1450	15	175
	64	72° 26.3'	128° 17.3'	278	1952	Aug.	3	1740	18	270
	65	72° 51.2'	128° 17.7'	373	1952	Aug.	3	2230	18	350
	66	69° 39'	133° 12'	5	1952	Aug.	8	0715	3	5
	67	70° 00'	133° 08.6'	18	1952	Aug.	8	1002	5	15
	68	70° 22.5'	133° 05.3'	33	1952	Aug.	8	1247	8	30

[a] Maximum sample depth exceeds the station depth due to inconsistency in soundings.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
52-0001	69	70° 44.8'	132° 58.8'	59	1952	Aug.	8	1530	10	46
	70	71° 05.8'	132° 54.7'	174	1952	Aug.	8	1840	15	172
	71	71° 15.6'	132° 04.9'	194	1952	Aug.	8	2250	15	175
	72	71° 22'	131° 08.4'	466	1952	Aug.	9	0320	20	438
	73	71° 01.2'	130° 48.7'	46	1952	Aug.	9	0751	8	30
	74	70° 41.3'	130° 45.9'	33	1952	Aug.	9	1059	5	15
	75	70° 21.1'	130° 42.9'	18	1952	Aug.	9	1345	5	15
	76	70° 14.2'	130° 59.8'	15	1952	Aug.	9	1545	5	14
	77	70° 05.9'	131° 50.4'	20	1952	Aug.	9	1830	6	19
	78	69° 57.7'	133° 22.9'	22	1952	Aug.	9	2230	6	20
	79	69° 52.1'	134° 17.5'	9	1952	Aug.	10	0055	4	7
	80	69° 49.4'	135° 07'	13	1952	Aug.	10	0310	5	11
	81	70° 10'	135° 06.9'	57	1952	Aug.	10	0530	10	45
	82	70° 30.6'	135° 06.9'	57	1952	Aug.	10	0841	10	50
	83	70° 45.6'	135° 05'	88	1952	Aug.	10	1200	11	75
	84	70° 10.5'	135° 56.1'	48	1952	Aug.	10	1942	9	40
	85	70° 00'	136° 58'	44	1952	Aug.	11	0055	8	30
	87	69° 45.3'	137° 01.3'	31	1952	Aug.	11	1008	7	25
	88	69° 30.1'	137° 04'	18	1952	Aug.	11	1218	5	15
	89	69° 30.7'	137° 45.5'	59	1952	Aug.	11	1440	10	50
	90	69° 31.3'	138° 48'	15	1952	Aug.	11	1734	5	14
	91	69° 25'	138° 14'	57	1952	Aug.	14	0708	10	50
	92	69° 18.8'	137° 24'	15	1952	Aug.	14	1035	5	14
	93B	69° 31'	137° 01'	18	1952	Aug.	14	1852	5	15
	99	69° 23.2'	138° 21.5'	29	1952	Aug.	16	0530	7	25
	100	69° 26'	138° 45.8'	16	1952	Aug.	16	0704	5	15
	101	69° 44'	138° 50'	88	1952	Aug.	16	0920	11	75
	102	69° 56.8'	138° 52.5'	205	1952	Aug.	16	1250	14	150
	103	69° 45'	138° 25'	148	1952	Aug.	17	0120	14	137
	104	69° 24'	138° 48.9'	79	1952	Aug.	16	1854	12	80
	124	71° 49.5'	129° 33.3'	454	1952	Aug.	20	1944	20	435
	125	72° 00'	128° 59'	353	1952	Aug.	21	0155	19	350
	126	73° 30'	129° 00'	395	1952	Aug.	21	0650	19	380
	127	71° 55'	128° 26'	391	1952	Aug.	21	1334	19	370
	128	71° 32'	128° 29'	183	1952	Aug.	21	1873	15	175
	129	71° 00'	128° 32'	40	1952	Aug.	21	2212	9	35
	130	71° 42.8'	128° 31'	18	1952	Aug.	22	0030	5	15
	131	70° 39.2'	128° 17.4'	22	1952	Aug.	22	0123	6	20
	132	70° 41.4'	128° 14.4'	27	1952	Aug.	22	1953	7	23
	133	70° 47.4'	128° 03.2'	48	1952	Aug.	22	2103	10	45
	134	71° 00.4'	127° 38.9'	117	1952	Aug.	22	2310	13	110
	135	71° 13.4'	127° 16'	249	1952	Aug.	23	0155	17	235
	136	71° 26.5'	126° 50.8'	410	1952	Aug.	23	0631	19	400
	137	71° 38.6'	126° 21.8'	351	1952	Aug.	23	1005	19	330
	138	71° 51.2'	125° 52.8'	166	1952	Aug.	23	1305	15	160
	139	71° 56.8'	125° 52.2'	18	1952	Aug.	23	1415	5	15
	141	71° 58.5'	126° 18.8'	29	1952	Aug.	23	1757	7	25
	142	71° 59'	126° 54'	219	1952	Aug.	23	2020	17	210
	143	72° 00'	127° 48'	373	1952	Aug.	23	2347	19	360

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
52-0001	144	72° 01.1'	129° 33.2'	362	1952	Aug.	24	0455	17	250
	145	71° 31.3'	131° 30'	594	1952	Aug.	24	1345	20	500
	146	71° 11.8'	131° 36'	73	1952	Aug.	24	1642	11	68
	147	70° 52.2'	131° 41.2'	55	1952	Aug.	24	1928	10	50
	148	70° 33'	131° 47.2'	37	1952	Aug.	24	2227	7	30
	149	70° 13.3'	130° 56.2'	11	1952	Aug.	25	0237	4	8
	150	70° 05'	132° 02'	20	1952	Aug.	25	0540	5	15
	151	69° 58'	133° 25'	20	1952	Aug.	25	0912	6	18
	154	69° 43.7'	135° 49.6'	7	1952	Aug.	25	1643	4	6.4
	155	69° 32.3'	136° 18.6'	7	1952	Aug.	25	1848	4	6.4
	156	19° 32.9'	137° 12.6'	37	1952	Aug.	25	2140	8	30
	157	69° 33.3'	137° 58.8'	68	1952	Aug.	25	2340	11	65
	158	69° 34'	138° 22'	102	1952	Aug.	26	0055	12	91
	159	69° 32.5'	138° 47'	11	1952	Aug.	26	0225	4	10
	160	69° 48.7'	138° 20'	170	1952	Aug.	26	0605	14	150
	161	70° 0.8'	138° 40'	263	1952	Aug.	26	0900	17	250
	162	70° 12.2'	138° 58'	380	1952	Aug.	26	1218	19	366
	166	70° 17'	133° 10.1'	31	1952	Aug.	29	2010	8	27
	167	70° 37'	133° 8.2'	51	1952	Aug.	29	2300	9	40
	168	70° 37.5'	134° 40'	53	1952	Aug.	30	0258	9	50
	169	70° 47.5'	134° 39.2'	69	1952	Aug.	30	0440	11	65
	170	70° 47.8'	135° 24.8'	391	1952	Aug.	30	0747	18	375
	171	70° 30.5'	135° 56'	59	1952	Aug.	30	1053	10	50
	172	70° 15.9'	136° 22.8'	51	1952	Aug.	30	1315	10	45
	173	70° 16.3'	137° 51.8'	121	1952	Aug.	30	1718	12	91
	174	70° 08.6'	138° 44.5'	338	1952	Aug.	30	2121	19	325
	175	70° 03.8'	139° 18.8'	113	1952	Aug.	30	2330	12	100
	176	69° 44.5'	139° 09'	37	1952	Aug.	31	0225	9	35
	177	69° 48.3'	138° 16.8'	176	1952	Aug.	31	0556	15	160
	178	69° 50.2'	137° 28.2'	57	1952	Aug.	31	0835	10	50
	179	69° 39.4'	136° 41'	15	1952	Aug.	31	119	4	10
	180	69° 30'	137° 52.6'	51	1952	Aug.	31	1515	9	40
	181	69° 29.9'	138° 24.2'	80	1952	Aug.	31	1654	11	70
	182	69° 32.1'	138° 44.5'	13	1952	Aug.	31	1817	5	13
52-0002	11	71° 57'	125° 49'	27	1952	Sept.	2	18	3	10
	12	73° 50'	124° 40'	54	1952	Sept.	4	13	4	27
	12	73° 50'	124° 40'	54	1952	Sept.	4	14	4	27
	13	73° 13'	125° 10'	54	1952	Sept.	5	02	4	28
	14	74° 17'	125° 42'	443	1952	Sept.	5	04	8	225
	15	74° 20'	125° 48'	567	1952	Sept.	5	08	10	296
	16	74° 24'	125° 43'	664	1952	Sept.	5	12	10	350
	17	74° 02'	126° 38'	301	1952	Sept.	5	18	7	155
	18	74° 04'	127° 13'	664	1952	Sept.	5	21	9	225
	19	73° 48'	126° 52'	363	1952	Sept.	6	01	8	170
	20	73° 41'	128° 00'	786	1952	Sept.	6	06	7	400

DATA SET NUMBER	STATION NUMBER	LATITUDE	LONGITUDE	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
		°N	°W		YEAR	MONTH	DAY	HOUR GMT		
52-0002	21	73° 44'	128° 33'	1748	1952	Sept.	6	13	14	900
	22	72° 37'	126° 04'	78	1952	Sept.	7	05	5	38
	23	73° 16'	128° 25'	665	1952	Sept.	7	15	12	343
	24	72° 04'	128° 57'	743	1952	Sept.	7	20	12	367
	25	71° 45'	129° 32'	567	1952	Sept.	8	01	11	285
	26	71° 56'	125° 48'	38	1952	Sept.	8	16	4	18
	27	70° 26'	132° 36'	76	1952	Sept.	9	20	6	38
	28	70° 14'	134° 57'	78	1952	Sept.	10	01	6	40
	29	70° 13'	137° 26'	113	1952	Sept.	10	06	7	58
	30	70° 14'	139° 37'	698	1952	Sept.	10	22	10	360
53-0001	1	70° 45'	127° 33'	188	1953	Aug.	8	05	14	150
	2	70° 13'	124° 35'	69	1953	Aug.	8	24	10	60
	3	70° 39'	124° 10'	429	1953	Aug.	9	05	16	400
	4	70° 50'	123° 24'	482	1953	Aug.	9	11	15	446
	5	71° 02'	122° 57'	190	1953	Aug.	9	14	14	148
	6	71° 04'	122° 45'	21	1953	Aug.	9	19	7	21
	7	71° 06'	122° 29'	24	1953	Aug.	9	24	6	23
	8	71° 22'	120° 32'	50	1953	Aug.	11	10	10	45
	9	71° 28'	120° 09'	105	1953	Aug.	11	12	14	140
	10	71° 32'	119° 46'	135	1953	Aug.	11	14	13	125
	12	71° 59'	120° 02'	23	1953	Aug.	14	08	6	20
	13	71° 50'	118° 54'	66	1953	Aug.	15	12	7	25
	14	71° 55'	119° 32'	97	1953	Aug.	15	15	12	90
	31	71° 58'	120° 13'	75	1953	Aug.	25	08	10	70
	32	71° 56'	119° 38'	120	1953	Aug.	25	10	12	115
	33	71° 53'	119° 08'	26	1953	Aug.	25	12	5	20
	34	71° 38'	119° 10'	21	1953	Aug.	125	14	5	18
	35	71° 31'	119° 50'	150	1953	Aug.	25	22	13	145
	36	71° 28'	120° 35'	80	1953	Aug.	25	24	10	75
54-0002	3	70° 44'	127° 00'	219	1954	Aug.	9	1600	15	197
	4	70° 52'	125° 00'	332	1954	Aug.	9	2100	18	254
	5	71° 00'	123° 05'	117	1954	Aug.	10	0500	13	92
	6	70° 57'	123° 10'	195	1954	Aug.	10	0600	11	97
	42	72° 19'	119° 20'	65	1954	Sept.	6	1000	9	60
	43	72° 22'	118° 55'	80	1954	Sept.	6	1200	10	80
	45	71° 36'	119° 50'	150	1954	Sept.	6	1800	11	150
	46	70° 37'	121° 26'	453	1954	Sept.	7	0100	19	449
	47	71° 15'	125° 22'	303	1954	Sept.	7	1100	16	232
	48	73° 48'	126° 06'	58	1954	Sept.	10	0900	8	50
	49	73° 36'	125° 14'	25	1954	Sept.	10	1400	6	25
	50	73° 31'	126° 21'	82	1954	Sept.	10	1700	10	80
	51	72° 57'	125° 18'	16	1954	Sept.	11	0500	4	15
	52	72° 57'	126° 27'	69	1954	Sept.	11	0800	10	69
	53	72° 57'	127° 36'	153	1954	Sept.	11	1000	14	140

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
54-0002	54	72° 57'	129° 00'	334	1954	Sept.	11	1200	18	329
	55	72° 57'	129° 55'	640	1954	Sept.	11	1500	22	571
	56	72° 45'	127° 14'	91	1954	Sept.	11	1900	11	86
	57	72° 23'	126° 36'	22	1954	Sept.	11	2200	5	20
	58	72° 00'	126° 07'	30	1954	Sept.	12	0100	6	25
	59	71° 39'	126° 42'	448	1954	Sept.	12	0700	21	419
	60	71° 16'	127° 12'	298	1954	Sept.	12	1000	17	296
	61	70° 53'	127° 48'	140	1954	Sept.	12	1200	11	110
	62	70° 41'	128° 08'	16	1954	Sept.	12	1400	4	15
	63	70° 10'	132° 00'	23	1954	Sept.	12	2200	6	22
	64	70° 38'	132° 00'	38	1954	Sept.	12	2400	8	37
	65	70° 59'	134° 42'	365	1954	Sept.	13	0800	19	354
	66	70° 33'	134° 46'	55	1954	Sept.	13	1100	9	55
	67	70° 01'	134° 44'	27	1954	Sept.	13	1300	6	24
	68	70° 20'	135° 57'	54	1954	Sept.	13	1800	9	47
	69	69° 45'	137° 03'	28	1954	Sept.	13	2300	6	28
54-0003	1	70° 45'	128° 00'	53	1954	Aug.	9	1500	9	40
	2	71° 22'	126° 31'	457	1954	Aug.	9	2100	16	400
	3	71° 46'	125° 14'	457	1954	Aug.	10	0200	11	100
	4	71° 54'	125° 22'	33	1954	Aug.	10	0400	8	25
	5	71° 57'	125° 55'	15	1954	Aug.	10	0500	6	10
	6	74° 19'	125° 08'	37	1954	Aug.	12	2200	9	30
	7	74° 27'	125° 01'	298	1954	Aug.	14	0200	13	280
	25	72° 05'	119° 00'	44	1954	Sept.	05	1300	8	40
	26	72° 01'	119° 42'	104	1954	Sept.	6	1500	11	90
	27	71° 58'	119° 08'	50	1954	Sept.	6	1600	8	40
	28	71° 03'	123° 01'	101	1954	Sept.	7	0200	8	60
	29	71° 00'	123° 14'	271	1954	Sept.	7	0300	13	250
	30	70° 50'	123° 32'	466	1954	Sept.	7	0500	17	394
	31	70° 38'	123° 53'	472	1954	Sept.	7	0800	18	388
	32	70° 27'	124° 10'	326	1954	Sept.	7	1000	15	298
	33	74° 26'	125° 01'	57	1954	Sept.	9	1900	8	40
	34	74° 26'	125° 01'	57	1954	Sept.	9	2200	8	40
	35	73° 58'	125° 25'	38	1954	Sept.	10	1100	6	25
	36	73° 48'	124° 53'	27	1954	Sept.	10	1300	6	20
59-0001	4	72° 04'	130° 57'	780	1959	June	17	2215	13	340
	5	71° 58'	132° 27'	1480	1959	June	30	1646	24	1374
	6	71° 44'	132° 32'	1400	1959	July	13	1932	24	1372
	7	71° 33'	133° 25'	not given	1959	July	24	1840	24	1275
	8	71° 23'	134° 21'	1027	1959	Aug.	5	1910	23	1000
	9	71° 26'	135° 30'	1362	1959	Aug.	24	1920	22	1200
	10	71° 43'	136° 48'	not given	1959	Sept.	9	2145	5	2058

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
62-0001	1	69° 49.3'	130° 19.0'	16	1962	July	16	0350	4	15
	5	69° 37.0'	130° 19.0'	7	1962	July	21	0000	2	6
	9	69° 48.0'	130° 13.0'	9	1962	July	25	0650	3	8
	12	69° 20.5'	130° 53.0'	12	1962	July	31	1850	3	11
	16	69° 45.0'	130° 32.5'	3	1962	Aug.	2	0650	1	1
	20	69° 47.0'	130° 24.0'	12	1962	Aug.	5	1850	5	11
	22	69° 25.0'	132° 08.0'	30	1962	Aug.	8	0100	7	12
	27	69° 14.0'	132° 27.0'	7	1962	Aug.	10	1800	2	6
	32	69° 48.0'	130° 19.0'	10	1962	Aug.	12	2150	4	9
	33	69° 55.8'	129° 08.0'	18	1962	Aug.	13	0080	4	16
	34	70° 31.0'	128° 19.0'	6	1962	Aug.	15	2250	3	5
	34	70° 31.0'	128° 19.0'	7	1962	Aug.	16	2250	3	6
	43	70° 06.6'	125° 43.0'	110	1962	Aug.	22	0350	7	100
	46	69° 21.0'	123° 42.0'	1	1962	Aug.	26	0430	1	0
	49	70° 07.0'	124° 39.0'	15	1962	Aug.	29	1850	4	13
63-0001	1	79° 06.2'	125° 09.0'	36	1963	July	24	2100	6	30
	2	70° 03.7'	126° 00.0'	182	1963	July	26	0150	11	178
	3	69° 22.9'	125° 40.5'	13	1963	July	30	0330	6	12
	4	69° 22.9'	125° 40.5'	19	1963	July	31	2350	5	18
	5	69° 39.3'	125° 22.3'	15	1963	Aug.	1	2150	4	14
	6	70° 05.8'	126° 02.5'	185	1963	Aug.	3	1280	11	180
	7	70° 03.9'	125° 28.5'	81	1963	Aug.	4	2080	10	80
	8	70° 17.9'	123° 55.0'	180	1963	Aug.	6	0380	11	166
	9	70° 11.4'	124° 16.7'	64	1963	Aug.	8	0330	8	63
	10	69° 49.7'	123° 05.5'	82	1963	Aug.	13	0050	9	80
	12	69° 27.0'	124° 17.0'	31	1963	Aug.	14	0130	6	30
	13	69° 52.0'	125° 54.0'	78	1963	Aug.	20	2310	9	75
	14	70° 14.3'	124° 34.4'	70	1963	Aug.	28	1980	9	65
69-0002	M-44	67° 27'	133° 32'	-	1969	Aug.	7	1410	1	-
	Mackenzie 2	* 69° 25'	133° 30'	-	1969	-	-	-	1	-
	Mackenzie 22	* 69° 35'	133° 30'	-	1969	-	-	-	1	-
	M-43	67° 7'	130° 15'	-	1969	Aug.	7	1235	1	bottom
70-0003	Kugmallit Bay	* 69° 35.0'	133° 30.0'	-	1970	July	-		1	bottom
70-0008	Mackenzie Delta	* 69° 30'	136°		1970	(summer)			1	bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
70-0009	1	69° 43.00'	140° 37.00'	26	1970				1	bottom
	4	69° 55.00'	140° 00.00'	42	1972				1	bottom
	10	70° 10.30'	139° 52.60'	62	1970				1	bottom
	15	70° 37.00'	139° 29.00'	1455	1970				1	bottom
	46	69° 31.50'	137° 03.50'	8	1971				1	bottom
	49	69° 46.00'	137° 06.00'	43	1970				1	bottom
	55	70° 08.20'	137° 15.80'	47	1970				1	bottom
	58	70° 24.20'	137° 08.20'	539	1971				1	bottom
	60	70° 45.70'	137° 04.00'	1390	1970				1	bottom
	74	69° 04.50'	136° 08.00'	4	1971				1	bottom
	76	69° 21.41'	136° 50.00'	2	1971				1	bottom
	83	68° 56.66'	136° 44.50'	2	1971				1	bottom
	102	70° 41.10'	135° 16.30'	71	1971				1	bottom
	103	70° 57.40'	135° 03.40'	457	1970				1	bottom
	111	70° 30.40'	134° 59.90'	60	1971				1	bottom
	112	70° 24.90'	134° 44.00'	54	1971				1	bottom
	115	70° 08.00'	134° 54.00'	37	1970				1	bottom
	119	69° 58.00'	134° 59.60'	23	1971				1	bottom
	121	69° 46.50'	134° 54.00'	4	1971				1	bottom
	124	69° 40.50'	134° 04.00'	32	1971				1	bottom
	127	69° 11.50'	134° 13.00'	1	1971				1	bottom
	159	71° 18.50'	133° 23.50'	699	1970				1	bottom
	162	71° 02.80'	132° 59.50'	80	1970				1	bottom
	164	70° 56.20'	132° 47.00'	50	1970				1	bottom
	166	70° 45.20'	132° 27.60'	32	1970				1	bottom
	167	70° 31.80'	132° 10.00'	63	1970				1	bottom
	170	70° 14.50'	132° 06.10'	31	1970				1	bottom
	172	70° 07.80'	132° 21.90'	24	1971				1	bottom
	175	69° 59.00'	132° 03.00'	11	1971				1	bottom
	176	69° 52.50'	132° 03.00'	6	1971				1	bottom
	181	69° 46.83'	132° 04.00'	4	1971				1	bottom
	200	71° 26.75'	130° 53.87'	300	1970				1	bottom
	201	71° 16.60'	130° 37.60'	62	1970				1	bottom
	202	71° 07.00'	130° 17.80'	44	1970				1	bottom
	206	70° 41.30'	130° 52.10'	32	1970				1	bottom
	215	69° 39.50'	130° 34.00'	8	1971				1	bottom
	220	69° 42.00'	129° 06.00'	1	1970				1	bottom
	221	69° 57.58'	129° 16.00'	14	1971				1	bottom
	222	70° 06.00'	129° 14.00'	11	1971				1	bottom
	223	70° 18.50'	128° 59.60'	11	1972				1	bottom
	225	70° 29.80'	129° 22.80'	16	1970				1	bottom
	226	70° 38.70'	129° 39.40'	22	1970				1	bottom
	228	70° 50.00'	129° 52.00'	29	1970				1	bottom
	230	71° 01.50'	129° 41.40'	38	1972				1	bottom
	231	71° 25.20'	129° 27.30'	225	1970				1	bottom
	234	71° 07.90'	128° 59.10'	45	1970				1	bottom
	236	70° 56.20'	128° 18.60'	49	1972				1	bottom
	237	70° 52.00'	128° 23.00'	36	1970				1	bottom
	239	70° 34.70'	128° 51.60'	15	1972				1	bottom
	[illegible]	[illegible]	128° 21.50'	12	1971					

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
71-0004A	71-508	69° 34.8'	131° 18'	22	1971	Aug.	19	1753	7	18
	71-508	69° 34.8'	131° 18'	24	1971	Aug.	28	1830	7	20
	71-508	69° 34.8'	131° 18'	25	1971	Sept.	6	1830	4	20
	71-510	69° 36.5'	131° 04'	57	1971	Aug.	26	1715	8	49
	71-510	69° 36.5'	131° 04'	65	1971	Sept.	9	1940	6	50
71-0004B	71-508	69° 34.8'	131° 18'	22	1971	Dec.	15	1930	6	20
71-0005	Herschel Island	69° 36.0'	139° 00.0'	-	1971	Oct.	-	-	(12 y old F polar bear)	
	Herschel Island	69° 36.0'	139° 00.0'	-	1971	Oct.	-	-	(4 y old M polar bear)	
	Herschel Island	69° 36.0'	139° 00.0'	-	1971	Oct.	-	-	(3 y old M polar bear)	
	Sachs Harbour	71° 56.0'	125° 30.0'	-	1971	Nov.	-	-	(F polar bear)	
72-0002	57	70° 12'	134° 06'	39	1972				1	bottom
	58	70° 06'	136° 36'	34	1972				1	bottom
	59	70° 06'	139° 06'	184	1972				1	bottom
72-0003	2	* 69° 00'	* 134° 40'		1972	Mar.	19		1	** (984 h)
	3	* 69° 21.5'	* 134° 27'		1972	Mar.	19		1	(1896 h)
	3	* 69° 21.5'	* 134° 27'		1972	Mar.	21	0200	1	(0.25 h)
	3	* 69° 21.5'	* 134° 27'		1972	June	7		1	(1248 h)
	3	* 69° 21.5'	* 134° 27'		1972	June	29	0200	3	(792 h)
	3	* 69° 21.5'	* 134° 27'		1972	Aug.	25		5	(-)
	3	* 69° 21.5'	* 134° 27'		1972	Aug.	26		1	(-)
	3	* 69° 21.5'	* 134° 27'		1972	Aug.	31		1	(432 h)
	3	* 69° 21.5'	* 134° 27'		1972	Sept.	1	1600	1	(0.25 h)
	4	* 69° 23'	* 134° 42'		1972	Mar.	19		1	(-)
	4	* 69° 23'	* 134° 42'		1972	Mar.	20		1	(840 h)
	4	* 69° 23'	* 134° 42'		1972	Mar.	21		2	(0.25 h)
	4	* 69° 23'	* 134° 42'		1972	June	28		2	(28 h)
	4	* 69° 23'	* 134° 42'		1972	June	29		3	(768 h)
	4	* 69° 23'	* 134° 42'		1972	Aug.	18		12	(surface soil)
	4	* 69° 23'	* 134° 42'		1972	Aug.	20		3	(-)
	4	* 69° 23'	* 134° 42'		1972	Aug.	22		2	(-)
	4	* 69° 23'	* 134° 42'		1972	Aug.	29		1	(38 h)
	4	* 69° 23'	* 134° 42'		1972	Aug.	31		1	(0.25 h)
	4	* 69° 23'	* 134° 42'		1972	Sept.	7		9	(-)

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

** This column has been used for maximum period of collection for air samples.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		**
72-0003	4	* 69° 23'	* 134° 42'		1972	Sept.	8		1	(-)
	4	* 69° 23'	* 134° 42'		1972	Sept.	9		1	surface
	5	* 69° 23'	* 135° 00'		1972	Mar.	22		3	(792 h)
	5	* 69° 23'	* 135° 00'		1972	May	29		1	(1464 h)
	5	* 69° 23'	* 135° 00'		1972	Jul.	29		1	(1008 h)
	5	* 69° 23'	* 135° 00'		1972	Aug.	27		1	(-)
	6	* 68° 21.5'	* 133° 46'		1972	Mar.	23		4	(888 h)
	6	* 68° 21.5'	* 133° 46'		1972	Apr.	26		1	(2112 h)
	6	* 68° 21.5'	* 133° 46'		1972	Apr.	29		1	(624 h)
	6	* 68° 21.5'	* 133° 46'		1972	May	25		2	(1584 h)
	6	* 68° 21.5'	* 133° 46'		1972	Jul.	31		1	(984 h)
	7	* 69° 22.5'	* 134° 24'		1972	June	26		1	(-)
	7	* 69° 22.5'	* 134° 24'		1972	June	27		7	(768 h)
	7	* 69° 22.5'	* 134° 24'		1972	June	28		1	(672 h)
	7	* 69° 22.5'	* 134° 24'		1972	June	29		2	(216 h)
	7	* 69° 22.5'	* 134° 24'		1972	July	29		1	(768 h)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	8		1	surface
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	14		6	(surface soil)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	18		2	(-)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	20		4	(-)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	22		3	(-)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	26		1	surface
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	28		4	(10.5 h)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	29		1	(1248 h)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	30		2	(23.5 h)
	7	* 69° 22.5'	* 134° 24'		1972	Aug.	31		1	(21 h)
	7	* 69° 22.5'	* 134° 24'		1972	Sept.	9		1	surface
	7	* 69° 22.5'	* 134° 24'		1972	Sept.	11		1	(0.25 h)
	8	* 69° 31.5'	* 135° 09'	a 0.8	1972	Sept.	9		1	surface
	9	* 69° 37'	* 135° 00'	a 2.6	1972	Sept.	10		1	surface
	10	* 69° 25.5'	* 134° 30'		1972	Aug.	21		5	(-)
	10	* 69° 25.5'	* 134° 30'		1972	Aug.	23		1	(-)
	10	* 69° 25.5'	* 134° 30'		1972	Aug.	31		1	(-)
	11	* 69° 27.5'	* 134° 55'		1972	Aug.	26		1	(-)
	12	* 69° 19'	* 134° 13'		1972	Sept.	6		1	(-)
	13	* 69° 29'	* 134° 23'		1972	Sept.	3		1	(-)
	14	* 69° 24'	* 134° 29'		1972	Aug.	25		1	(-)
	14	* 69° 24'	* 134° 29'		1972	Aug.	28		2	(-)
	15	* 69° 19'	* 134° 48'		1972	Sept.	6		1	(-)
	16	* 69° 27'	* 134° 38'		1972	Aug.	19		2	(-)
	17	* 69° 30.5'	* 135° 22'		1972	Aug.	10		1	(-)
	17	* 69° 30.5'	* 135° 22'		1972	Aug.	17		1	(-)
	18	* 69° 36'	* 134° 22'		1972	Aug.	18		1	(-)
72-0004 A	72-508	69° 34.8'	131° 18'	20	1972	Mar.	17	2330	7	20
	72-508	69° 34.8'	131° 18'	20	1972	Mar.	17	2330	2	1.57

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.
** This column has been used for maximum period of collection for air samples.
a Approximate station depth based on description in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		**
72-0004 B	72-513	69° 22'	131° 08'	30	1972	Aug.	21	1800	5	28
	72-516	69° 32'	130° 55'	4	1972	Aug.	24	0140	2	3
	72-517	69° 32'	130° 40'	6	1972	Aug.	24	0005	2	5
	72-518	69° 25'	130° 47'	15	1972	Aug.	23	2145	4	13
	72-519	69° 27'	130° 55'	45	1972	Aug.	23	1830	7	40
	72-520	69° 30'	131° 39'	43	1972	Aug.	25	2010	5	40
	72-522	69° 20'	132° 05'	23	1972	Aug.	26	0100	4	20
	72-524	69° 14'	132° 21'	6	1972	Aug.	26	1340	2	5
	72-525	69° 09'	132° 29'	9	1972	Aug.	26	-	3	8
	72-508	69° 34.8'	131° 18'	23	1972	May	18	2210	7	20
	72-508	69° 34.8'	131° 18'	21	1972	July	9	1805	7	20
	72-508	69° 34.8'	131° 18'	22	1972	July	22	0310	7	20
	72-508	69° 34.8'	131° 18'	19	1972	July	28	0320	7	18
	72-508	69° 34.8'	131° 18'	20	1972	Aug.	4	1850	7	18
	72-508	69° 34.8'	131° 18'	21	1972	Aug.	11	1600	7	20
	72-508	69° 34.8'	131° 18'	21	1972	Aug.	18	1630	7	20
	72-508	69° 34.8'	131° 18'	22	1972	Aug.	25	1315	7	20
	72-508	69° 34.8'	131° 18'	22	1972	Aug.	29	1412	7	20
	72-508	69° 34.8'	131° 18'	16	1972	Sept.	4	1900	3	15
	72-510	69° 36.5'	131° 04'	61	1972	July	23	1925	9	50
	72-510	69° 36.5'	131° 04'	61	1972	July	28	2155	9	50
	72-510	69° 36.5'	131° 04'	51	1972	Aug.	4	0130	9	50
	72-510	69° 36.5'	131° 04'	60	1972	Aug.	10	1545	9	50
	72-510	69° 36.5'	131° 04'	60	1972	Aug.	17	1550	9	50
	72-510	69° 36.5'	131° 04'	58	1972	Aug.	28	1556	9	50
	72-515A	69° 33'	131° 12'	27	1972	Aug.	21	2240	5	25
	72-515	69° 32'	131° 11'	41	1972	Aug.	29	1630	5	39
	72-508	69° 34.8'	131° 18'	23	1972	May	18	1900	6	1.91
72-0004C	72-508	69° 34.8'	131° 18'	18	1972	Nov.	25	2100	7	17
	72-508	69° 34.8'	131° 18'	18	1972	Nov.	24	2120	2	0.5
72-0005	Shallow Bay	68° 55'	135° 20'		1972	July			(21 whales)	
	Kugmallit Bay	69° 25'	133° 50'		1972	July			(7 whales)	
	Harry Channel-Mackenzie River									
72-0006	A 1	69° 25'	135° 01'	-	1972	July	5		1	0
	A 1	69° 25'	135° 01'	-	1972	Aug.	2		1	0

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
	Harry Channel-Mackenzie River									
72-0006	A 2	69° 23'	134° 59'	-	1972	July	5		1	0
	A 2	69° 23'	134° 59'	-	1972	Aug.	2		1	0
	A 3	69° 22'	134° 57'	-	1972	July	6		1	0
	A 3	69° 22'	134° 57'	-	1972	Aug.	3		1	0
	A 4	69° 23'	134° 52'	-	1972	July	6		1	0
	A 4	69° 23'	134° 52'	-	1972	Aug.	3		1	0
	A 5	69° 22'	134° 55'	-	1972	July	6		1	0
	A 5	69° 22'	134° 55'	-	1972	Aug.	4		1	0
	A 6	69° 19'	134° 56'	-	1972	July	9		1	0
	A 6	69° 19'	134° 56'	-	1972	Aug.	4		1	0
	A 7	69° 14'	134° 59'	-	1972	July	9		1	0
	A 7	69° 14'	134° 59'	-	1972	Aug.	5		1	0
	A 8	69° 11'	135° 00'	-	1972	July	9		1	0
	A 8	69° 11'	135° 00'	-	1972	Aug.	5		1	0
	A 9	69° 10'	135° 06'	-	1972	July	9		1	0
	A 9	69° 10'	135° 06'	-	1972	Aug.	6		1	0
	East Channel-Mackenzie River									
	B 1	69° 18'	134° 05'	-	1972	July	14		1	0
	B 1	69° 18'	134° 05'	-	1972	Aug.	7		1	0
	B 2	69° 15'	134° 11'	-	1972	July	14		1	0
	B 2	69° 15'	134° 11'	-	1972	Aug.	7		1	0
	B 3	69° 14'	134° 12'	-	1972	July	16		1	0
	B 3	69° 14'	134° 12'	-	1972	Aug.	8		1	0
	B 4	69° 08'	134° 21'	-	1972	July	15		1	0
	B 4	69° 08'	134° 21'	-	1972	Aug.	8		1	0
	B 5	69° 01'	134° 37'	-	1972	July	17		1	0
	B 5	69° 01'	134° 37'	-	1972	Aug.	10		1	0
	B 6	69° 01'	134° 42'	-	1972	July	18		1	0
	B 6	69° 01'	134° 42'	-	1972	Aug.	10		1	0
	B 7	69° 00'	134° 37'	-	1972	July	11		1	0
	B 7	69° 00'	134° 37'	-	1972	Aug.	11		1	0
	B (a)	69° 11'	134° 10'	-	1972	July	15		1	0
	B (b)	69° 05'	134° 21'	-	1972	July	17		1	0
	3 B	69° 31.9'	134° 57.7'	8	1972	Aug.	02		2	8
	4 C	69° 32.8'	134° 51.9'	7	1972	Aug.	02		2	7
	4 A	69° 32.4'	134° 41.9'	4	1972	Aug.	02		2	4
	SS	69° 37.5'	134° 41.0'	11	1972	Aug.	03		2	11
	AI	69° 37.2'	134° 40.6'	9	1972	Aug.	03		2	9
	5 D	69° 36.9'	134° 35.0'	7	1972	Aug.	04		2	7
	6 C	69° 39.5'	134° 43.5'	15	1972	Aug.	05		2	15
	5 A	69° 32.5'	134° 37.0'	5	1972	Aug.	09		2	5
	10 B	69° 32.1'	134° 26.9'	6	1972	Aug.	09		2	6
	10 E	69° 31.6'	134° 12.1'	6	1972	Aug.	09		2	6
	9 D	69° 36.7'	134° 20.6'	8	1972	Aug.	09		2	8
	7 E	69° 41.2'	134° 28.0'	15	1972	Aug.	10		2	15

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
72-0006 (cont'd)	7 C	69° 37.4'	134° 31.5'	9	1972	Aug.	10		2	9
	3 B	69° 31.9'	134° 57.7'	9	1972	Aug.	16		2	9
	10 B	69° 32.1'	134° 26.9'	5	1972	Aug.	16		2	5
	7 E	69° 41.2'	134° 28.0'	8	1972	Aug.	16		2	8
	7 C	69° 37.4'	134° 31.5'	10	1972	Aug.	16		2	10
	5 A	69° 32.5'	134° 37.0'	5	1972	Aug.	17		2	5
	9 B	69° 34.6'	134° 28.5'	7	1972	Aug.	17		2	7
	1 B	69° 30.4'	134° 34.8'	3	1972	Aug.	17		2	3
	6 C	69° 39.5'	134° 43.5'	14	1972	Aug.	17		2	14
	4 C	69° 32.8'	134° 51.9'	7	1978	Aug.	18		2	7
	8 A	69° 41.3'	134° 10.5'	10	1972	Aug.	18		2	10
	9 D	69° 36.7'	134° 20.6'	5	1972	Aug.	18		2	5
	AI	69° 37.2'	134° 40.6'	9	1972	Aug.	19		2	9
	SS	69° 37.5'	134° 41.0'	11	1972	Aug.	19		2	11
72-0007	5 D	69° 36.9'	134° 35.0'	8	1972	Aug.	19		2	8
	5 A	69° 32.5'	134° 37.0'	5	1972	Sept.	10		2	5
	7 C	69° 37.4'	134° 31.5'	9	1972	Sept.	10		2	9
	6 C	69° 39.5'	134° 43.5'	13	1972	Sept.	10		2	13
	AI	69° 37.2'	134° 40.6'	9	1972	Sept.	10		2	9
	5 D	69° 36.9'	134° 35.0'	7	1972	Sept.	10		2	7
	3 B	69° 31.9'	134° 57.7'	8	1972	Sept.	10		2	8
	A 11	69° 37.2'	134° 40.0'	8	1972	July	06		2	8
	A 12	69° 37.0'	134° 40.6'	5	1972	July	06		2	5
	A 13	69° 37.2'	134° 41.2'	9	1972	July	07		2	9
	SS	69° 37.5'	134° 41.0'	9	1972	July	07		2	9
	5 D	69° 36.9'	134° 35.0'	10	1972	July	07		2	10
	SS	69° 37.5'	134° 41.0'	11	1972	July	08		2	11
	AI	69° 37.2'	134° 40.6'	10	1972	July	08		2	10
	AI	69° 37.2'	134° 40.6'	9	1972	July	08		2	9
	7 C	69° 37.4'	134° 31.5'	10	1972	July	09		2	10
	7 D	69° 39.0'	134° 00.3'	11	1972	July	09		2	11
	7 E	69° 41.2'	134° 28.0'	9	1972	July	09		2	9
	5 E			7	1972	July	10		2	7
	5 B	69° 33.9'	134° 39.5'	8	1972	July	10		2	8
	5 A	69° 32.5'	134° 37.0'	7	1972	July	10		2	7
	2 A	69° 32.0'	134° 36.0'	5	1972	July	10		2	5
	1 B	69° 30.4'	134° 34.8'	4	1972	July	10		2	4
	2 B	69° 31.7'	134° 37.9'	4	1972	July	10		2	4
	7 A	69° 34.0'	134° 34.5'	8	1972	July	10		2	8
	7 B	69° 35.7'	134° 33.2'	10	1972	July	10		2	10
	3 C	69° 30.7'	134° 53.4'	9	1972	July	11		2	9
	10 B	69° 32.1'	134° 26.9'	4	1972	July	19		2	4
	6 A	69° 40.6'	134° 33.0'	14	1972	July	19		2	14
	6 B	69° 40.0'	134° 38.9'	14	1972	July	19		2	14
	6 C	69° 39.5'	134° 43.5'	15	1972	July	20		2	15
	6 D	69° 39.0'	134° 48.5'	8	1972	July	20		2	8
	6 E	69° 38.4'	134° 53.2'	4	1972	July	20		2	4
	3 A	69° 33.1'	135° 02.3'	4	1972	Aug.	02		2	4

DATA SET NUMBER	STATION NUMBER	LATITUDE	LONGITUDE	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
		°N	°W		YEAR	MONTH	DAY	HOUR GMT		
72-0008	Sachs Harbour	71° 56.0'	125° 30.0'	-	1972	Aug.			(6 seals)	(12 samples)
72-0014	Amundsen Gulf	* 71° 00'	118° 30'		1972 1973	(spring)			80 ringed seals 6 bearded seals 12 arctic chars	
72-0019	Cape Parry	* 70° 00.0'	124° 30.0'		1972				(13 ringed seals)	
	Holman	* 70° 30.0'	118° 00.0'		1972-73				(83 ringed seals)	
	Holman	* 70° 30.0'	118° 00.0'		1973				(6 bearded seals)	
	Holman	* 70° 30.0'	118° 00.0'		1977				(112 ringed seals)	
73-0001	AI 1	69° 37.2'	134° 40.0'	3	1973	Mar.	20		2	3
	AI 2	69° 37.0'	134° 40.6'	3	1973	Mar.	21		2	3
	AI 3	69° 37.2'	134° 41.2'	3	1973	Mar.	21		2	3
	SS	69° 37.5'	134° 41.0'	4	1973	Mar.	21		2	4
	5 D	69° 36.9'	134° 35.0'	3	1973	Mar.	21		2	3
	6 C	69° 39.5'	134° 43.5'	5	1973	Mar.	20		2	5
	7 B	69° 35.7'	134° 33.2'	3	1973	Mar.	21		2	3
73-0002	73-526	69° 23.7'	132° 59.6'	8	1973	July	20	1640	4	7
	73-527	69° 30.0'	133° 15.0'	5	1973	July	20	2115	3	5
	73-528	69° 50.0'	132° 22.0'	7	1973	July	22	2125	4	7
	73-529	70° 01.0'	131° 26.0'	12	1973	July	23	0130	6	10
	73-530	70° 11.0'	130° 50.0'	9	1973	July	23	1540	6	9
	73-531	70° 23.0'	130° 01.0'	15	1973	July	23	1950	6	14
	73-532	70° 43.0'	130° 14.0'	36	1973	July	24	0045	10	35
	73-533	70° 56.0'	130° 14.0'	42	1973	July	24	0420	9	40
	73-534	69° 43.0'	133° 06.0'	7	1973	July	24	2315	5	6.5
	73-535	69° 40.0'	133° 53.0'	6	1973	July	25	2330	4	5
	73-536	69° 50.0'	134° 30.0'	9	1973	July	26	0300	5	8
	73-537	69° 48.0'	135° 17.0'	9	1973	July	26	0615	6	9
	73-538	69° 33.0'	136° 00.0'	5	1973	July	26	1905	4	5
	73-539	69° 17.0'	136° 34.0'	3	1973	July	26	2240	3	3
	73-540	69° 02.0'	137° 12.0'	4	1973	July	27	0215	4	4
	73-541	69° 14.0'	137° 54.0'	34	1973	July	27	1840	8	30
	73-542	69° 32.0'	138° 18.0'	94	1973	July	27	2310	11	90
73-0003A	73-508	69° 34.8'	131° 18'	23	1973	Feb.	24	0235	7	20
	73-508	69° 34.8'	131° 18'	22	1973	May	21	0045	7	20
	73-515	69° 32'	131° 11'	47	1973	May	20	2028	9	40

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
73-0003A	73-508	69° 34.8'	131° 18'	23	1973	Feb.	23	2230	5	1.41
	73-508	69° 34.8'	131° 18'	22	1973	May	19	1800	6	1.69
73-0003B	73-508	69° 34.8'	131° 18'	24	1973	June	21	1710	7	20
	73-508	69° 34.8'	131° 18'	24	1973	June	28	1520	7	20
	73-508	69° 34.8'	131° 18'	23	1973	July	7	2015	7	20
	73-508	69° 34.8'	131° 18'	22	1973	July	12	1645	7	20
	73-508	69° 34.8'	131° 18'	26	1973	July	19	1755	7	20
	73-508	69° 34.8'	131° 18'	25	1973	July	27	2315	7	20
	73-508	69° 34.8'	131° 18'	24	1973	Aug.	3	1750	7	20
	73-508	69° 34.8'	131° 18'	25	1973	Aug.	13	1610	7	20
	73-508	69° 34.8'	131° 18'	24	1973	Aug.	23	2155	7	20
	73-515	69° 32'	131° 11'	41	1973	June	26	2247	9	40
	73-515	69° 32'	131° 11'	41	1973	July	5	1755	9	40
	73-515	69° 32'	131° 11'	43	1973	July	11	1930	9	40
	73-515	69° 32'	131° 11'	42	1973	July	19	2225	9	40
	73-515	69° 32'	131° 11'	43	1973	July	27	1820	9	40
	73-515	69° 32'	131° 11'	41	1973	Aug.	3	2140	9	40
	73-515	69° 32'	131° 11'	44	1973	Aug.	13	1403	9	40
	73-515	69° 32'	131° 11'	44	1973	Aug.	16	1830	9	40
	73-515	69° 32'	131° 11'	44	1973	Aug.	23	1500	9	40
73-0003C	E1	69° 31'	131° 24'	62	1973	July	04	1737	12	60
	E1	69° 31'	131° 24'	62	1973	July	10	1550	12	60
	E1	69° 31'	131° 24'	56	1973	July	24	1540	11	50
	E1	69° 31'	131° 24'	53	1973	Aug.	02	1535	11	50
	E1	69° 31'	131° 24'	58	1973	Aug.	12	1705	11	50
	E1	69° 31'	131° 24'	58	1973	Aug.	24	1550	12	55
	E2	69° 31'	131° 35'	48	1973	July	04	2015	10	40
	E2	69° 31'	131° 35'	56	1973	July	10	1805	11	50
	E2	69° 31'	131° 35'	53	1973	July	24	1735	11	50
	E2	69° 31'	131° 35'	62	1973	Aug.	02	1725	12	60
	E2	69° 31'	131° 35'	60	1973	Aug.	12	1835	12	55
	E2	69° 31'	131° 35'	59	1973	Aug.	24	1730	12	55
	E3	69° 24.5'	131° 57'	7	1973	July	04	2210	4	05
	E3	69° 24.5'	131° 57'	9	1973	July	10	2025	5	07
	E3	69° 24.5'	131° 57'	9	1973	July	24	2310	5	07
	E3	69° 24.5'	131° 57'	7.5	1973	Aug.	02	1930	5	07
	E3	69° 24.5'	131° 57'	7.5	1973	Aug.	12	2030	5	07
	E3	69° 24.5'	131° 57'	9	1973	Aug.	24	2250	5	07
	E4	69° 21'	132° 05'	14	1973	July	04	2345	7	12
	E4	69° 21'	132° 05'	17	1973	July	10	2210	7	15
	E4	69° 21'	132° 05'	17	1973	July	24	2145	7	15
	E4	69° 21'	132° 05'	10	1973	Aug.	02	2115	5	07
	E4	69° 21'	132° 05'	12	1973	Aug.	12	2205	6	10

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
73-0003C	E4	69° 21'	132° 05'	18	1973	Aug.	24	0015	7	15
	E5	69° 17.5'	132° 12'	18	1973	July	04	0105	7	15
	E5	69° 17.5'	132° 12'	18	1973	July	10	2320	7	15
	E5	69° 17.5'	132° 12'	19	1973	July	24	0000	7	15
	E5	69° 17.5'	132° 12'	23	1973	Aug.	02	2210	8	20
	E5	69° 17.5'	132° 12'	19	1973	Aug.	12	0000	7	15
	E5	69° 17.5'	132° 12'	18	1973	Aug.	24	0125	7	15
	E6	69° 14'	132° 19'	18	1973	July	04	0215	6	10
	E6	69° 14'	132° 19'	12	1973	July	10	0040	6	10
	E6	69° 14'	132° 19'	19	1973	July	24	0010	7	15
	E6	69° 14'	132° 19'	17	1973	Aug.	02	0000	7	15
	E6	69° 14'	132° 19'	20.5	1973	Aug.	12	0005	7	15
	E6	69° 14'	132° 19'	13.5	1973	Aug.	24	0230	6	10
	E7	69° 13.5'	132° 31'	3.5	1973	Aug.	17	0115	3	03
	E8	69° 05'	132° 50'	3	1973	Aug.	17	0040	3	03
	E9	68° 55.5'	132° 50'	8	1973	Aug.	17	2245	5	07
	E10	68° 51'	133° 20'	9	1973	Aug.	17	2205	5	07
	E11	68° 46'	133° 21'	9	1973	Aug.	17	2135	5	07
	E12	68° 41.5'	132° 57'	8	1973	Aug.	17	2050	5	07
	L1	70° 07.5'	129° 12.2'	15	1973	Aug.	05	0040	7	12
	L2	69° 55.2'	129° 31'	13	1973	Aug.	05	0240	6	10
	L3	69° 50.7'	129° 51.5'	10	1973	Aug.	05	0420	5	07
	L4	69° 45.8'	130° 13.2'	10	1973	Aug.	05	0545	5	07
	L5	69° 39'	130° 30'	8	1973	Aug.	05	0720	5	07
	L6	69° 31'	130° 56'	34	1973	Aug.	06	0930	9	30
73-0003D	73-508	69° 34.8'	131° 18'	23	1973	Oct.	1	1700	20	20
	73-515	69° 32'	131° 11'	47	1973	Sept.	30	1815	46	46
74-0001	105	69° 28.7'	135° 23.2'		1974	Mar	13		1	bottom
	113	69° 31.5'	135° 16.9'		1974	Mar	15		1	bottom
	201	69° 32.2'	135° 22.7'		1974	Mar	21		1	bottom
	203	69° 32.9'	135° 24.7'		1974	Mar	22		1	4
	204	69° 32.6'	135° 25.2'		1974	Mar	22		1	bottom
	206	69° 33.7'	135° 25.1'		1974	Mar	24		1	4
	207	69° 34.0'	135° 24.7'		1974	Mar	24		1	bottom
	209	69° 36.4'	135° 24.1'		1974	Mar	26		1	6
	212	69° 39.3'	135° 21.7'		1974	Mar	27		1	8
									1	bottom
	301	69° 42.5'	135° 25.0'		1974	Mar	28		1	9
									1	bottom

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
74-0001	303	69° 36.1'	135° 26.4		1974	Mar	30		1	13
									1	bottom
	404	69° 48.0'	134° 00.0'		1974	Apr	9		1	bottom
	413	69° 50.0'	133° 54.5'		1974	Apr	11		1	bottom
	416	69° 49.8'	133° 38.5'		1974	Apr	12		1	10
									1	bottom
	419	69° 49.9'	133° 39.0'		1974	Apr	12		1	bottom
	502	69° 51.0'	134° 03.5'		1974	Apr	9		1	bottom
	801	69° 36.5'	134° 39.9'		1974	Apr	14		1	3
									1	bottom
	802	69° 36.5'	134° 41.9'		1974	Apr	14		1	3
									1	bottom
	803	69° 36.3'	134° 41.0'		1974	Apr	14		1	2
									1	bottom
	999	69° 46.6'	132° 49.0'		1974	Apr	18		1	2
									1	bottom
74-0003	2	69° 48.7'	133° 57.4'	6	1974	Aug.	02		2	6
	2	69° 48.7'	133° 57.4'	6	1974	Aug.	08		2	6
	2	69° 48.7'	133° 57.4'	6	1974	Aug.	13		1	0.5
	2	69° 48.7'	133° 57.4'	6	1974	Aug.	26		2	6
	3	69° 58.8'	134° 20.9'	12	1974	Aug.	11		1	0.5
	3	69° 58.8'	134° 20.9'	12	1974	Aug.	26		2	12
	4	69° 53.7'	134° 36.3'	14.4	1974	Aug.	08		2	14
	4	69° 53.7'	134° 36.3'	14.4	1974	Aug.	26		2	14.4
	5	69° 52.7'	135° 04.7'	13	1974	Aug.	08		2	13
	5	69° 52.7'	135° 04.7'	13	1974	Aug.	26		2	13
	5	69° 52.7'	135° 04.7'	13	1974	Sept.	01		1	0.5
	6	69° 50.1'	135° 35.0'	14.2	1974	Aug.	26		2	14.2
	7	69° 48.1'	136° 01.1'	11.9	1974	Aug.	26		2	11.9
	8	69° 32.9'	135° 56.9'	4.7	1974	July	14		1	0.5
	8	69° 32.9'	135° 56.9'	4.7	1974	July	15		1	0.5
	8	69° 32.9'	135° 56.9'	4.7	1974	July	21		1	4.7
	8	69° 32.9'	135° 56.9'	4.7	1974	Aug.	05		1	0.5
	8	69° 32.9'	135° 56.9'	4.7	1974	Aug.	08		1	4.7
	8	69° 32.9'	135° 56.9'	4.7	1974	Aug.	10		1	0.5
	8	69° 32.9'	135° 56.9'	4.7	1974	Aug.	26		2	4.7
	8	69° 32.9'	135° 56.9'	4.7	1974	Aug.	28		1	0.5
	10	69° 32.2'	135° 44.3'	2.7	1974	July	13		1	0.5
	10	69° 32.2'	135° 44.3'	2.7	1974	July	20		1	0.5
	10	69° 32.2'	135° 44.3'	2.7	1974	July	21		1	2.7
	10	69° 32.2'	135° 44.3'	2.7	1974	Aug.	05		1	0.5
	10	69° 32.2'	135° 44.3'	2.7	1974	Aug.	08		1	2.7
	10	69° 32.2'	135° 44.3'	2.7	1974	Aug.	14		1	0.5
	10	69° 32.2'	135° 44.3'	2.7	1974	Aug.	24		1	2.6
	10	69° 32.2'	135° 44.3'	2.7	1974	July	26		1	2.6
	10	69° 32.2'	135° 44.3'	2.7	1974	Aug.	29		1	0.5

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
74-0003	11	69° 49.2'	134° 36.5'	6	1974	Aug.	08		2	6
	11	69° 49.2'	134° 36.5'	6	1974	Aug.	13		1	0.5
	11	69° 49.2'	134° 36.5'	6	1974	Aug.	26		2	6
	11	69° 49.2'	134° 36.5'	6	1974	Sept.	08		1	-
	12	69° 42.0'	134° 37.1'	3.9	1974	Aug.	8		2	3.9
	12	69° 42.0'	134° 37.1'	3.9	1974	Aug.	12		1	0.5
	12	69° 42.0'	134° 37.1'	3.9	1974	Aug.	26		1	0.5
	12	69° 42.0'	134° 37.1'	3.9	1974	Sept.	09		1	0.5
	13	69° 35.9'	134° 48.7'	2	1974	July	22		2	2
	13	69° 35.9'	134° 48.7'	2	1974	Aug.	07		1	1.0
	13	69° 35.9'	134° 48.7'	2	1974	Aug.	08		2	2
	13	69° 35.9'	134° 48.7'	2	1974	Aug.	11		1	1.0
	13	69° 35.9'	134° 48.7'	2	1974	Aug.	26		2	2
	14	69° 34.1'	134° 37.7'	1.3	1974	July	15		1	1
	14	69° 34.1'	134° 37.7'	1.3	1974	July	22		1	0.5
	14	69° 34.1'	134° 37.7'	1.3	1974	Aug.	07		1	1
	14	69° 34.1'	134° 37.7'	1.3	1974	Aug.	08		2	1.3
	14	69° 34.1'	134° 37.7'	1.3	1974	Aug.	11		1	0.5
	14	69° 34.1'	134° 37.7'	1.3	1974	Aug.	26		1	0.5
	15	69° 31.2'	134° 56.3'	1.2	1974	July	15		1	0.5
	15	69° 31.2'	134° 56.3'	1.2	1974	July	22		1	0.5
	15	69° 31.2'	134° 56.3'	1.2	1974	Aug.	06		1	0.5
	15	69° 31.2'	134° 56.3'	1.2	1974	Aug.	08		2	1.2
	15	69° 31.2'	134° 56.3'	1.2	1974	Aug.	11		1	0.5
	15	69° 31.2'	134° 56.3'	1.2	1974	Aug.	26		2	1.2
	16	69° 37.0'	135° 10.4'	2.8	1974	July	15		1	0.5
	16	69° 37.0'	135° 10.4'	2.8	1974	July	21		2	2.8
	16	69° 37.0'	135° 10.4'	2.8	1974	Aug.	05		1	2.8
	16	69° 37.0'	135° 10.4'	2.8	1974	Aug.	08		2	2.8
	16	69° 37.0'	135° 10.4'	2.8	1974	Aug.	11		1	0.5
	16	69° 37.0'	135° 10.4'	2.8	1974	Aug.	12		1	0.5
	16	69° 37.0'	135° 10.4'	2.8	1974	Aug.	26		2	2.8
	16	69° 37.0'	135° 10.4'	2.8	1974	Sept.	08		1	0.5
	17	69° 40.0'	135° 12.8'	4.5	1974	Aug.	05		1	4
	17	69° 40.0'	135° 12.8'	4.5	1974	Aug.	12		2	4.5
	17	69° 40.0'	135° 12.8'	4.5	1974	Aug.	26		2	4.5
	17	69° 40.0'	135° 12.8'	4.5	1974	Sept.	07		1	0.5
	18	69° 33.8'	135° 23.5'	1.8	1974	July	15		1	0.5
	18	69° 33.8'	135° 23.5'	1.8	1974	July	21		2	1.8
	18	69° 33.8'	135° 23.5'	1.8	1974	Aug.	06		1	0.5
	18	69° 33.8'	135° 23.5'	1.8	1974	Aug.	08		2	1.8
	18	69° 33.8'	135° 23.5'	1.8	1974	Aug.	14		1	0.5
	18	69° 33.8'	135° 23.5'	1.8	1974	Aug.	26		2	1.8
	18	69° 33.8'	135° 23.5'	1.8	1974	Sept.	01		1	0.5
	18	69° 33.8'	135° 23.5'	1.8	1974	Sept.	10		1	0.5
	19	69° 30.6'	135° 37.4'	1.9	1974	July	13		1	0.5
	19	69° 30.6'	135° 37.4'	1.9	1974	July	20		1	0.5
	19	69° 30.6'	135° 37.4'	1.9	1974	Aug.	05		1	0.5
	19	69° 30.6'	135° 37.4'	1.9	1974	Aug.	26		2	1.9

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
74-0003	19	69° 30.6'	135° 37.4	1.9	1974	Aug.	29		1	0.5
	20	69° 24.1'	135° 31.5'	0.6	1974	July	11		1	0.5
	20	69° 24.1'	135° 31.5'	0.6	1974	July	12		1	-
	20	69° 24.1'	135° 31.5'	0.6	1974	July	18		1	0.5
	20	69° 24.1'	135° 31.5'	0.6	1974	Aug.	03		1	0.5
	20	69° 24.1'	135° 31.5'	0.6	1974	Aug.	07		1	0.5
	20	69° 24.1	135° 31.5'	0.6	1974	Aug.	30		1	0.5
	21	69° 27.2'	135° 51.6'	2	1974	July	12		1	0.5
	21	69° 27.2'	135° 51.6'	2	1974	July	14		1	0.5
	21	69° 27.2	135° 51.6'	2	1974	July	15		1	0.5
	21	69° 27.2	135° 51.6'	2	1974	July	20		1	0.5
	21	69° 27.2'	135° 51.6'	2	1974	Aug.	04		1	0.5
	21	69° 27.2'	135° 51.6'	2	1974	Sept.	10		1	0.5
	21	69° 27.2	135° 51.6'	2	1974	Aug.	29		1	0.5
	22	69° 25.0'	135° 52.3'	1.7	1974	July	17		1	0.5
	22	69° 25.0'	135° 52.3'	1.7	1974	Aug.	04		1	0.5
	22	69° 25.0'	135° 52.3'	1.7	1974	Aug.	08		2	1.7
	22	69° 25.0'	135° 52.3'	1.7	1974	Aug.	10		1	0.5
	22	69° 25.0'	135° 52.3'	1.7	1974	Aug.	24		1	0.5
	22	69° 25.0'	135° 52.3'	1.7	1974	Aug.	26		1	0.5
	22	69° 25.0'	135° 52.3'	1.7	1974	Aug.	30		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	07		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	08		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	09		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	10		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	11		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	12		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	13		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	14		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	15		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	18		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	20		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	23		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	July	25		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Aug.	02		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Aug.	04		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Aug.	06		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Aug.	08		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Aug.	09		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Aug.	18		1	0.5
	23	69° 26.5'	135° 37.6'	2	1974	Aug.	21		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Aug.	23		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Sept.	03		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Sept.	07		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Sept.	26		1	0.5
	23	69° 18.6'	135° 37.6'	2	1974	Sept.	27		1	0.5
	24	69° 38.6'	135° 32.2'	5.1	1974	Aug.	05		1	5.1
	24	69° 38.6'	135° 32.2'	5.1	1974	Aug.	07		1	0.5
	24	69° 38.6'	135° 32.2'	5.1	1974	Aug.	10		2	5.1

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
74-0003	24	69° 38.6'	135° 32.2'	5.1	1974	Sept.	07		1	0.5
	25	69° 26.5'	135° 33.4'	1.9	1974	July	11		1	1.0
	25	69° 26.5'	135° 33.4'	1.9	1974	July	12		-	-
	25	69° 26.5'	135° 33.4'	1.9	1974	July	18		1	0.5
	25	69° 26.5'	135° 33.4'	1.9	1974	Aug.	03		1	0.5
	25	69° 26.5'	135° 33.4'	1.9	1974	Aug.	06		1	0.5
	25	69° 26.5'	135° 33.4'	1.9	1974	Aug.	02		1	0.5
	25	69° 26.5'	135° 33.4'	1.9	1974	Aug.	08		2	1.9
	25	69° 26.5'	135° 33.4'	1.9	1974	Aug.	28		1	0.5
	25	69° 26.5'	135° 33.4'	1.9	1974	Sept.	28		1	0.5
	26	69° 44.8'	134° 20.3'	3	1974	Aug.	08		2	3
	26	69° 44.8'	134° 20.3'	3	1974	Aug.	12		1	0.5
	26	69° 44.8'	134° 20.3'	3	1974	Aug.	26		2	3
	26	69° 44.8'	134° 20.3'	3	1974	Sept.	09		2	3
	27	69° 30.2'	135° 43.3'	1.6	1974	July	15		1	0.5
	27	69° 30.2'	135° 43.3'	1.6	1974	July	17		1	0.5
	27	69° 30.2'	135° 43.3'	1.6	1974	July	19		1	0.5
	27	69° 30.2'	135° 43.3'	1.6	1974	July	20		1	0.5
	27	69° 30.2'	135° 43.3'	1.6	1974	Aug.	06		1	0.5
	27	69° 30.2'	135° 43.3'	1.6	1974	Aug.	14		1	0.5
	27	69° 30.2'	135° 43.3'	1.6	1974	Aug.	28		1	1.6
	27	69° 30.2'	135° 43.3'	1.6	1974	Sept.	28		1	0.5
	28	69° 30.9'	135° 44.7'	6.4	1974	July	13		1	0.5
	28	69° 30.9'	135° 44.7'	6.4	1974	July	15		1	1.8
	28	69° 30.9'	135° 44.7'	6.4	1974	July	17		2	6.4
	28	69° 30.9'	135° 44.7'	6.4	1974	July	19		1	0.5
	28	69° 30.9'	135° 44.7'	6.4	1974	Aug.	06		1	0.5
	28	69° 30.9'	135° 44.7'	6.4	1974	Aug.	14		1	0.5
	28	69° 30.9'	135° 44.7'	6.4	1974	Aug.	28		1	0.5
	29	69° 28.8'	135° 47.8'	6	1974	July	17		1	0.5
	29	69° 28.8'	135° 47.8'	6	1974	Aug.	05		1	0.5
	29	69° 28.8'	135° 47.8'	6	1974	Aug.	08		1	6
	31	69° 37.2'	135° 17.2'	-	1974	Sept.	06		1	
	32	69° 33.3'	135° 33.4'	-	1974	Aug.	08		1	
	33	69° 42.2'	134° 48.9'	-	1974	Sept.	08		1	
	33	69° 42.2'	134° 48.9'	-	1974	Sept.	29		1	
	34	69° 41.8'	134° 48.7'	-	1974	Aug.	11		1	
	34	69° 41.8'	134° 48.7'	-	1974	Aug.	12		1	
	34	69° 41.8'	134° 48.7'	-	1974	Sept.	08		1	
	34	69° 41.8'	134° 48.7'	-	1974	Sept.	28		1	
	35	69° 40.8'	134° 53.7'	-	1974	Aug.	11		1	
	35	69° 40.8'	134° 53.7'	-	1974	Aug.	12		1	
	36	69° 40.2'	134° 56.6'	-	1974	Aug.	11		1	
	38	69° 45.3'	134° 22.9'	-	1974	Sept.	28		1	
	43	69° 30.8'	135° 42.0'	-	1974	Aug.	13		1	
	43	69° 30.8'	135° 42.0'	-	1974	Sept.	28		2	
	44	69° 31.2'	135° 42.5'	-	1974	Sept.	28		1	

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
74-0003	45	69° 41.2'	134° 43.0'	-	1974	Aug.	11		1	
	46	69° 41.7'	134° 42.6'	-	1974	Aug.	11		1	
	47	69° 37.9'	135° 24.0'	-	1974	Aug.	07		1	
	48	69° 38.5'	135° 24.1	-	1974	Aug.	07		1	
	49	69° 37.0'	135° 19.1'	-	1974	Sept.	28		1	
	50	69° 37.8'	135° 22.3'	-	1974	Sept.	28		1	
	51	69° 46.8'	134° 21.3'	-	1974	Aug.	12		1	
	52	69° 46.3'	134° 17.4'	-	1974	Sept.	28		1	
	53	69° 46.8'	134° 16.9'	-	1974	Sept.	28		1	
	54	69° 47.4'	134° 23.0'	-	1974	Sept.	28		1	
	55	69° 29.9'	134° 12.0'	-	1974	Sept.	29		1	
	56	69° 20.2'	135° 47.2'	-	1974	July	22		1	
	56	69° 20.2'	135° 47.2'	-	1974	July	26		1	
	56	69° 20.2'	135° 47.2'	-	1974	Aug.	08		2	
	60	69° 36.6'	135° 18.8'	-	1974	Sept.	29		1	
74-0007A	74-7	70° 39'	130° 06'	24	1974	July	19	2105	7	20
	74-9	71° 22'	130° 24'	11	1974	July	25	2046	10	110
	74-12	71° 02'	133° 56'	267	1974	July	29	1902	12	260
	74-14	70° 09'	133° 24'	34	1974	July	14	1932	8	32
	74-22	69° 46'	138° 52'	79	1974	Aug.	12	2120	10	75
	74-23	70° 01'	138° 56'	226	1974	Aug.	16	1900	11	220
	74-29	70° 17'	136° 26'	52	1974	Aug.	02	1940	9	50
	74-30	69° 55'	136° 12'	25	1974	Aug.	02	2330	7	24
	74-544	70° 33.4'	131° 42.8'	41	1974	Aug.	27	1515	6	35
	74-545	70° 23.2'	131° 42'	37	1974	Aug.	27	1750	6	35
	74-546	69° 56.6'	133° 27.1'	21	1974	Aug.	27	0304	5	18
	74-547	70° 18'	134° 10.2'	55	1974	Aug.	28	0507	7	50
	74-548	70° 08.1'	135° 34.3'	44	1974	Aug.	29	0527	9	40
	74-549	69° 56.2'	135° 47.8'	20	1974	Aug.	30	1315	7	20
	74-550	70° 21.2'	136° 36.3'	58	1974	Aug.	30	2225	8	35
	74-551	70° 06.9'	136° 50.2'	40	1974	Aug.	30	0531	7	35
	74-552	69° 56.2'	137° 04.7'	43	1974	Aug.	31	1435	8	40
	74-553	70° 05.4'	139° 08.2'	202	1974	Aug.	31	0535	13	200
	74-554	69° 47.4'	138° 55.7'	97	1974	Sept.	01	1540	10	90
	74-555	69° 44.9'	139° 36.7'	30	1974	Sept.	01	1915	6	26
	74-556	69° 27'	138° 48.5'	55	1974	Sept.	01	0020	8	50
	74-557	69° 36.3'	138° 21'	126	1974	Sept.	02	1515	11	120
	74-558	69° 32.8'	136° 58.1'	20	1974	Sept.	02	2100	6	18
	74-559	69° 59.7'	135° 31'	31	1974	Sept.	02	0250	7	29
74-0007B	74-562	69° 35'	133° 05'	5	1974	Dec.	12		2	2

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
74-0008	1	69° 40' 38"	137° 11' 19"	48	1974	Aug.	11	0103	11	40
	2	70° 07' 15"	134° 37' 07"	30	1974	Aug.	12	0042	9	25
	7	70° 07' 12"	134° 20' 44"	30	1974	Aug.	14	1508	9	25
	11	69° 36'	137° 41' 00"	64	1974	Aug.	16	1847	13	55
	11	69° 36'	137° 41' 00"	64	1974	Aug.	16	0053	13	55
	11	69° 36'	137° 41' 00"	64	1974	Aug.	17	0639	13	55
	11	69° 36'	137° 41' 00"	64	1974	Aug.	17	1249	13	55
	11	69° 36'	137° 41' 00"	64	1974	Aug.	17	1848	13	55
	12	69° 51' 19"	137° 41' 10"	81	1974	Aug.	18			net tows, sediments only
	13	69° 48' 35"	138° 23' 09"	191	1974	Aug.	18	2000	16	175
	17	69° 26' 11"	138° 09' 32"	66	1974	Aug.	19			sediments only
	19	69° 18' 28"	138° 05' 25"	42	1974	Aug.	18	0303	10	35
	20	69° 26' 42"	138° 48' 54"	70	1974	Aug.	21	2008	17	65
	23	69° 30' 53"	138° 37' 59"	15	1974	Aug.	22	1847	7	12
	24	69° 38' 10"	138° 18' 20"	70	1974	Aug.	22			hydrocarbons only
	25	69° 28' 34"	138° 00' 12"	65	1974	Aug.	22	0210	13	60
	27	69° 30' 09"	138° 28' 19"	47	1974	Aug.	23			hydrocarbons only
	28	69° 29' 29"	137° 10' 17"	43	1974	Aug.	23	0114	10	30
	30	69° 33' 32"	136° 50' 16"	9	1974	Aug.	23			hydrocarbons only
	32	69° 24' 21"	136° 53' 25"	8	1974	Aug.	23			hydrocarbons only
	35	69° 18' 19"	137° 01' 10"	7	1974	Aug.	23			hydrocarbons, sed. only
	36	69° 18' 08"	137° 10' 34"	9	1974	Aug.	23	2226	6	10
	37	69° 12' 26"	137° 32' 19"	31	1974	Aug.	23			hydrocarbons only
	38	69° 18' 00"	137° 53' 32"	35	1974	Aug.	23	0210	10	30
	39	69° 18' 10"	138° 14' 16"	35	1974	Aug.	24			hydrocarbons, net tow only
	41	69° 49' 13"	135° 00' 05"	11	1974	Aug.	25	1416	6	9
	42	69° 57' 10"	134° 59' 31"	19	1974	Aug.	25	1906	7	15
	43	70° 00' 16"	132° 55' 02"	24	1974	Aug.	26	0613	9	25
	44	69° 58' 14"	132° 01' 34"	13	1974	Aug.	26	1715	7	15
	46	70° 12' 00"	131° 41' 47"	22	1974	Aug.	26	2218	8	20
	47	70° 19' 25"	131° 41' 22"	31	1974	Aug.	26			hydrocarbons only
	48	70° 26' 32"	131° 41' 29"	33	1974	Aug.	26	0227	9	30
	49	70° 30' 54"	131° 43' 40"	37	1974	Aug.	27			hydrocarbons only
	51	70° 24' 31"	131° 40' 53"	35	1974	Aug.	27	1912	11	35
	54	70° 09' 09"	134° 51' 26"	51	1974	Aug.	28	0542	13	50

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
74-0008	55	70° 06' 46"	135° 29' 21"	42	1974	Aug.	30	0603	11	35
	56	69° 56' 14"	135° 47' 51"	20	1974	Aug.	30	1424	8	20
	57	70° 31' 28"	137° 35' 41"	57	1974	Aug.	30	2348	13	55
	60	70° 05' 33"	139° 08' 03"	205	1974	Aug.	31	0511	15	200
74-0009	1	* 69° 13.5'	135° 10.0'	12	1974	Jan.	25	0120	2	bottom
						Apr.	10		2	bottom
	2	* 69° 21'	134° 57.5'	7		Jan.	25	0615	2	bottom
						Apr.	10		2	bottom
	3	* 69° 22.5'	134° 53.5'	4.5		Jan.	25	0515	2	bottom
						Apr.	10		2	bottom
	4	* 69° 06'	134° 23'	3		Jan.	24	0900	2	bottom
						Apr.	10		2	bottom
74-0010A	74-508	69° 34.8'	131° 18'	15	1974	Mar.	2	2125	6	10
	74-508	69° 34.8'	131° 18'	18	1974	May	24	2345	7	17
	74-515	69° 32'	131° 11'	48	1974	Mar.	1	2225	9	40
	74-515	69° 32'	131° 11'	28	1974	May	25	2145	8	27
	74-515	69° 32'	131° 11'	48	1974	Mar.	1	-	1	bottom 5 cm
	74-508	69° 34.8'	131° 18'	15	1974	Mar.	2	2200	5	1.43
	74-508	69° 34.8'	131° 18'	18	1974	May	24	2045	7	2.03
74-0010B	74-515	69° 32'	131° 11'	38	1974	June	20	2255	9	37
74-0010C	74-507	69° 34.5'	131° 15'	6	1974	July	31	1750	4	5
	74-507	69° 34.5'	131° 15'	6	1974	Aug.	8	1738	4	5
	74-507	69° 34.5'	131° 15'	61	1974	Aug.	7	1830	9	60
	74-507	69° 34.5'	131° 15'	63	1974	Aug.	14	2100	9	60
	74-507	69° 34.5'	131° 15'	65	1974	Aug.	20	1715	9	60
	74-507	69° 34.5'	131° 15'	22	1974	Aug.	7	2255	7	20
	74-507	69° 34.5'	131° 15'	10	1974	July	31	2300	5	7
	74-507	69° 34.5'	131° 15'	10.5	1974	Aug.	8	2030	5	7
	74-507	69° 34.5'	131° 15'	9	1974	Aug.	17	1915	5	7
	74-507	69° 34.5'	131° 15'	9	1974	Aug.	22	1950	5	7
	74-507	69° 34.5'	131° 15'	24	1974	July	10	0155	7	20
	74-507	69° 34.5'	131° 15'	20	1974	July	17	2155	7	19
	74-507	69° 34.5'	131° 15'	20.5	1974	July	27	1910	7	20
	74-507	69° 34.5'	131° 15'	20.5	1974	Aug.	3	1800	7	20
	74-507	69° 34.5'	131° 15'	22	1974	Aug.	15	1510	7	20
	74-508	69° 34.8'	131° 18'	24	1974	Aug.	22	1505	7	20
	74-510	69° 36.5'	131° 04'	57	1974	July	16	1725	9	40
	74-510	69° 36.5'	131° 04'	55	1974	Aug.	8	2350	9	50
	74-510	69° 36.5'	131° 04'	54	1974	Aug.	17	1530	9	50
	74-510	69° 36.5'	131° 04'	55	1974	Aug.	23	1600	9	50
	74-515	69° 32'	131° 11'	34.5	1974	July	12	1800	8	30

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
74-0010C	74-515	69° 32'	131° 11'	29	1974	July	17	1645	9	25
	74-515	69° 32'	131° 11'	47	1974	July	22	1655	9	40
	74-515	69° 32'	131° 11'	38	1974	July	27	1529	9	37
	74-515	69° 32'	131° 11'	42	1974	July	30	1500	9	40
	74-515	69° 32'	131° 11'	43	1974	Aug.	3	1400	9	40
	74-515	69° 32'	131° 11'	46	1974	Aug.	9	1335	9	40
	74-515	69° 32'	131° 11'	40	1974	Aug.	19	1625	9	38
74-0011	1	* 69° 36.0'	139° 46'	* 4	1974	a			1	-
	2	* 69° 35.7'	139° 44.5	* 4	1974	a			1	-
	3	* 69° 34.8'	139° 40.5'	* 5	1974	a			1	-
	4	* 69° 34.8'	139° 31.5'	* 2	1974	a			1	-
	5	* 69° 33.5'	139° 29.5'	* 3	1974	a			1	-
	6	* 69° 33.5'	139° 29'	* 4	1974	a			1	-
	7	* 69° 33.5	139° 27'	* 3	1974	a			1	-
	C	* 69° 35'	139° 30'	*10	1974	Aug.	25		11	12.0
	B	* 69° 33.7'	139° 34'	* 2	1974	July	12		1	-
	B	* 69° 33.7'	139° 34'	* 2	1974	Aug.	6		1	-
	B	* 69° 33.7'	139° 34'	* 2	1974	Aug.	8		1	-
	B	* 69° 33.7'	139° 34'	* 2	1974	Aug.	18			-
	B	* 69° 33.7'	139° 34'	* 2	1974	Aug.	8		1	-
	B	* 69° 33.7'	139° 34'	* 2	1974	Aug.	21			-
	A	* 69° 33.5'	139° 34'	* 2	1974	June	20		1	-
	A	* 69° 33.5'	139° 34'	* 2	1974	June	12		1	-
	A	* 69° 33.5'	139° 34'	* 2	1974	Aug.	1		1	-
	A	* 69° 33.5'	139° 34'	* 2	1974	Aug.	8		1	-
	A	* 69° 33.5'	139° 34'	* 2	1974	Aug.	18		1	-
	A	* 69° 33.5'	139° 34'	* 2	1974	Sept.	8		1	-
	A	* 69° 33.5'	139° 34'	* 2	1974	Sept.	21		1	-
74-0019	UB-11	* 69° 35.0'	134° 38.5	b 0.20	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-12	* 69° 35.8'	134° 39.8'	b 0.25	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-13	* 69° 36.6'	134° 41.0'	b 0.91	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-14	* 69° 37.4'	134° 42.0'	b 1.04	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-15	* 69° 38.2'	134° 43.0'	b 0.58	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-16	* 69° 38.9'	134° 44.0'	b 0.46	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-17	* 69° 39.7'	134° 44.9'	b 0.91	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-19	* 69° 32.6'	134° 41.5'	b 0.56	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-20	* 69° 32.4'	134° 43.5'	b 0.10	1974	Feb.-Mar.			1	0.15 - 0.30
	UB-21	* 69° 31.6'	134° 44.5'	b 0.08	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-1	* 69° 34.6'	135° 23.5'	b 0.74	1974	Feb.-Mar.			1	

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.
a Station 1-7 sampled between July 13 and August 13.
b Depth measured from ice-water interface.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
74-0019	PB-2	* 69° 34.4'	135° 23.5'	b 0.53	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-3	* 69° 34.3'	135° 23.5'	b 0.61	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-4	* 69° 34.25'	135° 23.5'	b 0.61	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-5	* 69° 34.17'	135° 23.5'	b 0.53	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-6	* 69° 34.1'	135° 23.5'	b 0.61	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-7	* 69° 34.0'	135° 23.5'	b 0.15	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-8	* 69° 33.9'	135° 23.5'	b 0.91	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-9	* 69° 33.75'	135° 23.5'	b 0.76	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-10	* 69° 34.17'	135° 24.9'	b 0.61	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-11	* 69° 34.17'	135° 24.5'	b 0.71	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-12	* 69° 34.17'	135° 24.2'	b 0.71	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-13	* 69° 34.17'	135° 23.9'	b 0.56	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-14	* 69° 34.17'	135° 23.4'	b 0.53	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-15	* 69° 34.17'	135° 23.2'	b 0.64	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-16	* 69° 34.17'	135° 23.0'	b 0.64	1974	Feb.-Mar.			1	0.15 - 0.30
	PB-17	* 69° 34.17'	135° 22.8'	b 0.74	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-1	* 69° 33.45'	135° 22.9'	b 0.61	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-3	* 69° 33.40'	135° 24.4'	b 0.64	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-5	* 69° 33.38'	135° 25.9'	b 0.66	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-7	* 69° 33.36'	135° 27.6'	b 0.48	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-9	* 69° 33.33'	135° 29.2'	b 0.48	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-11	* 69° 33.30'	135° 31.1'	b -	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-13	* 69° 32.50'	135° 30.0'	b 1.50	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-15	* 69° 32.80'	135° 28.6'	b 1.12	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-17	* 69° 33.20'	135° 27.4'	b 0.76	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(I)-19	* 69° 33.55'	135° 25.9'	b 0.66	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(III)-13	* 69° 38.15'	135° 23.4'	b 1.19	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(III)-14	* 69° 38.55'	135° 23.2'	b 3.96	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(III)-15	* 69° 38.90'	135° 23.1'	b 2.74	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(III)-17	* 69° 38.55'	135° 24.5'	b 2.29	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(III)-19	* 69° 38.50'	135° 20.7'	b 2.59	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-4	* 69° 36.15'	135° 17.9'	b 0.38	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-6	* 69° 36.25'	135° 16.6'	b 0.15	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-8	* 69° 36.8'	135° 14.9'	b 1.57	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-10	* 69° 37.3'	135° 13.6'	b 1.75	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-12	* 69° 37.1'	135° 15.5'	b 1.73	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-14	* 69° 37.5'	135° 16.5'	b 0.81	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-16	* 69° 35.8'	135° 18.4'	b 0.76	1974	Feb.-Mar.			1	0.15 - 0.30
	PB(IV)-18	* 69° 35.1'	135° 20.8'	b 0.41	1974	Feb.-Mar.			1	0.15 - 0.30
	GI-1	* 69° 24.6'	135° 31.50'	b 0.74	1974	Feb.-Mar.			1	0.15 - 0.30
	GI-2	* 69° 24.6'	135° 31.0'	b 0.38	1974	Feb.-Mar.			1	0.15 - 0.30

* Approximate latitude and longitude obtained by measuring plotted station psoitions given in report.

b Depth measured from ice-water interface.

DATA SET NUMBER	STATION NUMBER	LATITUDE •N	LONGITUDE •W	STATION DEPTH (m)	TIME SAMPLED YEAR	TIME SAMPLED MONTH	TIME SAMPLED DAY	TIME SAMPLED HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
74-0019	GI-3	* 69° 24.5'	135° 31.25'	b 0.76	1974	Feb.-Mar.			1	0.15 - 0.30
	GI-4	* 69° 24.4'	135° 31.50'	b 0.30	1974	Feb.-Mar.			1	0.15 - 0.30
74-0020	6	* 69° 39.0'	135° 09.0'	3	1974	Mar.	22		1	0
	6	* 69° 00.5'	135° 45.0'		1974	Aug.	25		1	0
	12	* 69° 07.5'	134° 20.0'		1974	Mar.	24		1	0
	14	* 69° 34.0'	135° 30.5'		1974	Aug.	13		1	0
	18	* 69° 35.0'	135° 13.0'		1974	Mar.	25		1	0
	19	* 69° 38.0'	135° 18.0'		1974	Aug.	13		1	0
	24	* 69° 30.5'	135° 20.0'		1974	July	9		1	0
	30	* 69° 16.0'	135° 04.0'		1974	June	25		1	0
	31	* 69° 14.0'	135° 02.0'		1974	June	21		1	0
	31	* 69° 14.0'	135° 02.0'		1974	Aug.	22		1	0
	39	* 69° 42.0'	134° 45.0'		1974	Aug.	15		1	0
	42	* 69° 22.5'	134° 40.0'		1974	June	21		1	0
	48	* 69° 43.5'	134° 32.0'		1974	Aug.	15		1	2.9
	50	* 69° 41.0'	134° 25.0'		1974	Aug.	28		1	0
	54	* 69° 34.0'	134° 10.0'		1974	Sept.	20		1	0
	54	* 69° 34.0'	134° 10.0'		1974	Sept.	20		1	20
74-0021A	V	* 69° 01.5'	137° 27.0'	3.7	1974	Apr.			1	0
	I	* 69° 06.5'	137° 39.0'	6.0	1974	Apr.			1	0
	VI	* 69° 07.0'	137° 59.5'	18.0	1974	Apr.			1	0
	II	* 69° 22.3'	138° 40.3'	11.0	1974	Apr.			1	0
	III	* 69° 31.3'	138° 55.0'	50.0	1974	Apr.			1	0
74-0021B	1	* 69° 14.0'	138° 29.5'	1.4	1974	summer			1	0
	26C	* 69° 21.0'	138° 46.0'	3.3	1974	summer			1	0
	31	* 69° 34.2'	138° 54.0'	3	1974	summer			1	0
	32	* 69° 34.1'	138° 58.0'	-	1974	summer			1	0
	114	* 69° 05.5'	137° 59.5'	2.6	1974	summer			1	0
	30	* 69° 21.0'	138° 55.0'	-	1974	summer			1	0
	104	* 68° 59.0'	137° 21.0'	3.0	1974	summer			1	0
	41	* 69° 18.0'	138° 24.0'	-	1974	summer			1	0
	100	* 69° 06.0'	137° 59.0'	13.0	1974	summer			1	0

* Approximate latitude and longitude obtained by measuring plotted station psoitions given in report.

b Depth measured from ice-water interface.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
74-0021C	31	* 69° 34.2'	138° 54.0'	3	1974	Aug.	24		1	0
	Collinson Head	* 69° 34.2'	138° 48.0'	-	1974	Sept.	1		1	0
	SE Herschel Island	* 69° 32.0'	138° 55.0'	-	1974	Sept.	1		1	0
	45	* 69° 28.8'	138° 50.0'	-	1974	Sept.	4		1	0
	114	* 69° 05.3'	137° 59.0'	2.6	1974	July	30		1	0
	King Pt. Lagoon; 2 km offshore	* 69° 05.9'	137° 57.0'	-	1974	Aug.	1		1	0
	1	* 69° 14.1'	138° 29.5'	1.4	1974	July	17		1	0
	NW Niakolik Point	* 69° 15.0'	138° 33.0'	-	1974	July	17		1	0
	30	* 69° 21.0'	138° 55.0'	-	1974	July	31		1	0
	112	* 69° 03.3'	137° 46.0'	-	1974	Aug.	15			
	Sabine Pt. 800 m offshore	* 69° 03.3'	137° 45.0'	-	1974	Aug.	15		1	0
	104	* 68° 59.0'	137° 21.0'	3.0	1974	Aug.	8		1	0
	6	* 69° 15.2'	138° 35.5'	-	1974	July	16		1	0
	8	* 69° 16.0'	138° 40.0'	-	1974	July	18		1	0
	36	* 69° 26.0'	139° 02.0'	-	1974	Sept.	2		1	0
74-0022	1	* 68° 47.2'	136° 41.0'	a 2.25	1975	Apr.	5		1	0
	2	* 68° 47.5'	136° 31.5'	a 3	1974	Oct.	1		1	0
				a 3	1974	Nov.	9		1	0
				a 1.5	1975	Apr.	5		1	0
	4	* 68° 49.0'	136° 10.0'	a 0.55	1975	Apr.	5		1	0
	7	* 68° 49.4'	136° 05.0'	a 4	1974	Oct.	1		1	0
				a 1.0	1975	Apr.	5		1	0
	8	* 68° 49.5'	136° 02.0'	a 3	1974	Nov.	8		1	0
				a 2.5	1975	Apr.	5		1	0
	9	* 68° 50.8'	135° 57.5'	a 0.70	1975	Apr.	5		1	0
	10	* 68° 52.1'	135° 55.0'	a 0.12	1975	Apr.	5		1	0
	14	* 68° 57.0'	135° 30.0'	a 9	1974	Nov.	7		1	0
				a 3	1975	Apr.	4		1	0
	15	* 68° 59.0'	135° 22.0'	a 0.1	1975	Apr.	4		1	0
	16	* 68° 58.5'	135° 20.0'	a 1.5	1974	Nov.	7		1	0
	17	* 68° 58.9'	135° 18.0'	a 2.5	1975	Apr.	4		1	0
	18	* 69° 00.6'	135° 07.0'	a 2.2	1974	Nov.	6		1	0
				a 0.25	1975	Apr.	4		1	0
	19	* 69° 02.0'	135° 08.0'	a 2.5	1975	Apr.	3		1	0
	20	* 69° 03.3'	135° 04.0'	a 7	1975	Apr.	2		1	0
	21	* 69° 02.0'	134° 59.5'	< 4	1974	Oct.	4		1	0

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

a Depth measured from ice-water interface.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
74-0022	22	* 69° 02.0'	134° 57.0'	a 3-9	1974	Nov.	6		1	0
	24	* 69° 04.8'	134° 53.0'	a 4.0-11.5	1975	Apr.	5		1	0
	25	* 69° 06.5'	134° 54.0'	a 0.1	1975	Apr.	2		1	0
	26	* 69° 03.9'	134° 45.0'	a 2.5	1975	Apr.	2		1	0
	27	* 69° 05.8'	134° 44.0'	a 0.19	1974	Nov.	11		1	0
	28	* 69° 01.1'	134° 38.0'	3	1974	Oct.	4		1	0
				-	1974	Nov.	11		1	0
	29	* 69° 05.9'	134° 25.0'	a 10	1975	Apr.	2		1	0
74-0027	Balaena Bay	70° 02.00'	124° 54.00'	6-10	1974	Nov.	15		1	0
		70° 02.00'	124° 54.00'	6-10	1974	Dec.	7		1	0
		70° 02.00'	124° 54.00'	6-10	1974	Dec.	9		1	0
		70° 02.00'	124° 54.00'	6-10	1974	Dec.	10		1	0
		70° 02.00'	124° 54.00'	6-10	1974	Dec.	23		1	0
		70° 02.00'	124° 54.00'	6-10	1975	Jan.	20		1	0
		70° 02.00'	124° 54.00'	6-10	1975	Jan.	21		1	0
		70° 02.00'	124° 54.00'	6-10	1975	Feb.	15		1	0
		70° 02.00'	124° 54.00'	6-10	1975	Feb.	23		1	0
		70° 02.00'	124° 54.00'	6-10	1975	Apr.	15		1	0
		70° 02.00'	124° 54.00'	6-10	1975	June	4		1	0
		70° 02.00'	124° 54.00'	6-10	1975	June	6		1	0
		70° 02.00'	124° 54.00'	6-10	1975	June	11		1	0
		70° 02.00'	124° 54.00'	6-10	1975	June	16		1	0
		70° 02.00'	124° 54.00'	6-10	1975	July	19		4	8
75-0004	1	69° 54.9'	134° 17.0'	10	1975	July	31		5	10
	1	69° 54.9'	134° 17.0'	10	1975	Aug.	03		1	10
	2	69° 48.8'	133° 58.2'	5	1975	July	17		6	5
	2	69° 48.8'	133° 58.2'	5	1975	Aug.	02		2	5
	2	69° 48.8'	133° 58.2'	5	1975	Aug.	20		6	5
	7	69° 46.0'	135° 57.8'	11	1975	July	28		7	11
	8	69° 32.7'	135° 57.0'	5	1975	July	28		3	5
	8	69° 32.7'	135° 57.0'	5	1975	Aug.	04		1	5
	8	69° 32.7'	135° 57.0'	5	1975	Aug.	16		6	5
	9	69° 37.4'	135° 54.2'	8	1975	Aug.	16		8	8
	10	69° 32.3'	135° 44.4'	3	1975	Aug.	03		1	3
	11	69° 49.1'	134° 36.3'	7	1975	July	13		3	7
	11	69° 49.1'	134° 36.3'	7	1975	July	31		3	7
	11	69° 49.1'	134° 36.3'	7	1975	Aug.	03		2	7
	12	69° 42.2'	134° 35.8'	4	1975	July	11		3	4
	12	69° 42.2'	134° 35.8'	4	1975	July	30		1	4
	12	69° 42.2'	134° 35.8'	4	1975	Aug.	03		0	4
	14	69° 33.7'	134° 36.3'	2	1975	Aug.	03		3	2
	14	69° 33.7'	134° 36.3'	2	1975	Aug.	15		3	2
	16	69° 37.1'	135° 10.5'	3	1975	July	10		3	3

* Approximate latitude obtained by measuring plotted station positions given in report.

a Depth measured from ice-water interface.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
75-0004	16	69° 37.1'	135° 10.5'	3	1975	July	30		3	3
	16	69° 37.1'	135° 10.5'	3	1975	Aug.	03		1	3
	17	69° 40.0'	135° 13.0'	5	1975	Aug.	03		1	5
	19	69° 30.5'	135° 37.5'	2	1975	Aug.	03		1	2
	21	69° 27.5'	135° 49.6'	2	1975	Aug.	04		1	2
	21	69° 27.5'	135° 49.6'	2	1975	Aug.	16		3	2
	22	69° 25.0'	135° 49.7'	2	1975	Aug.	04		1	2
	26	69° 44.7'	134° 21.3'	4	1975	July	18		2	4
	26	69° 44.7'	134° 21.3'	4	1975	Aug.	02		2	4
	26	69° 44.7'	134° 21.3'	4	1975	Aug.	03		2	4
	26	69° 44.7'	134° 21.3'	4	1975	Aug.	20		3	4
	29	69° 28.8'	135° 47.9'	6	1975	July	08		1	6
	29	69° 28.8'	135° 47.9'	6	1975	Aug.	07		1	6
	30	* 69° 29.9'	* 135° 45.2'	3	1975	July	08		1	3
	30	* 69° 29.9'	* 135° 45.2'	3	1975	Aug.	11		2	3
	31	69° 37.1'	135° 18.2'	3	1975	Aug.	10		1	3
	31	69° 37.1'	135° 18.2'	3	1975	Aug.	12		2	3
	32	69° 33.3'	135° 33.5'	3	1975	Aug.	11		2	3
	33	69° 42.1'	134° 49.7'	3	1975	July	09		1	3
	34	69° 41.7'	134° 49.5'	1	1975	July	09		1	1
	38	69° 45.4'	134° 23.2'	1	1975	July	12		0	1
	57	69° 30.6'	135° 44.7'	1	1975	July	08		1	1
	58	69° 30.3'	135° 21.8'	2	1975	July	17		2	2
	58	69° 30.3'	135° 21.8'	2	1975	Aug.	12		2	2
	59	69° 37.5'	135° 18.6'	5	1975	Aug.	02		2	5
	60	69° 44.9'	133° 40.2'	5	1975	Aug.	02		2	5
	60	69° 44.9'	133° 40.2'	5	1975	Aug.	20		6	5
	62	69° 24.3'	135° 49.3'	1	1975	July	26		2	1
	62	69° 24.3'	135° 49.3'	1	1975	Aug.	13		2	1
	67	69° 35.1'	134° 08.9'	5	1975	July	16		2	5
	69	69° 32.9'	134° 01.3'	1	1975	July	13		1	1
	70	69° 28.9'	133° 07.4'	1	1975	July	14		2	1
	71				1975	Aug.	18		3	2
	73	69° 40.4'	133° 20.3'	5	1975	July	15		9	5
	73	69° 40.4'	133° 20.3'	5	1975	Aug.	02		2	5
	73	69° 40.4'	133° 20.3'	5	1975	Aug.	20		4	5
	74	69° 35.7'	133° 09.5'	5	1975	July	15		10	5
	74	69° 35.7'	133° 09.5'	5	1975	Aug.	02		2	5
	74	69° 35.7'	133° 09.5'	5	1975	Aug.	20		4	5
	75	69° 31.5'	133° 06.5'	5	1975	July	15		8	5
	75	69° 31.5'	133° 06.5'	5	1975	Aug.	20		5	5
	76	69° 27.8'	133° 18.4'	4	1975	Aug.	20		4	4
	77	69° 33.9'	133° 30.3'	4	1975	July	15		4	4
	77	69° 33.9'	133° 30.3'	4	1975	Aug.	20		4	4
	78	69° 36.9'	133° 25.6'	5	1975	July	15		8	5
	78	69° 36.9'	133° 25.6'	5	1975	Aug.	02		2	5
	79	69° 40.3'	133° 51.0'	4	1975	Aug.	02		2	4
	79	69° 40.3'	133° 51.0'	4	1975	Aug.	20		5	4
	80	69° 42.7'	134° 08.3'	4	1975	Aug.	20		4	4
	81	69° 45.2'	134° 36.6'	5	1975	Aug.	03		1	5
	83	69° 25.6'	132° 57.8'	2	1975	July	14		1	2

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
75-0006	1	70° 15'	139° 04'	461	1975	Aug.	5	0721	15	405
	2	70° 41'	134° 45'	55	1975	Aug.	5	2045	11	50
	3	69° 57'	135° 16'	33	1975	Aug.	6	1939	9	30
	4	70° 57'	132° 29'	64	1975	Aug.	7	1755	12	60
	5	71° 19'	130° 35'	72	1975	Aug.	8	0339	12	70
	6	70° 09'	132° 15'	30	1975	Aug.	8	1648	9	25
	7	69° 34'	138° 55'	9	1975	Aug.	9	1930	4	7
	8	69° 22'	137° 30'	20	1975	Aug.	12	1705	7	bottom
	9	70° 03'	137° 41'	83	1975	Aug.	13	0218	12	bottom
	11	69° 52'	136° 00'	17	1975	Aug.	13	1441	7	bottom
	13	70° 27'	134° 59'	50	1975	Aug.	13	0145	10	bottom
	15	70° 01'	134° 00'	20	1975	Aug.	14	1524	8	bottom
	16	70° 20'	134° 00'	48	1975	Aug.	14	2130	9	40
	17	70° 41'	133° 53'	64	1975	Aug.	15	0200	11	bottom
	20	70° 00'	133° 00'	14	1975	Aug.	15	1300	6	bottom
	21	70° 30'	133° 00'	40	1975	Aug.	15	2208	9	40
	22	70° 55'	133° 22'	70	1975	Aug.	16	0306	12	bottom
	25	70° 01'	132° 00'	15	1975	Aug.	16	1458	6	bottom
	26	70° 29'	132° 02'	35	1975	Aug.	16	2238	9	30
	27	71° 00'	132° 03'	65	1975	Aug.	17	0340	12	bottom
	30	70° 19'	131° 01'	18	1975	Aug.	17	1455	7	bottom
	31	70° 50'	131° 09'	50	1975	Aug.	17	2221	9	40
	32	71° 11'	131° 11'	80	1975	Aug.	18	0203	13	bottom
	34	70° 24'	130° 13'	18	1975	Aug.	18	1649	7	bottom
	35	70° 56'	129° 59'	35	1975	Aug.	18	2222	8	29
	36	71° 23'	130° 01'	73	1975	Aug.	19	0220	12	bottom
	37	69° 49'	133° 21'	10	1975	Aug.	19	1536	5	bottom
	38	69° 54'	134° 58'	14	1975	Aug.	20	0433	6	bottom
	39	70° 14'	134° 58'	45	1975	Aug.	20	1041	9	40
	40	70° 27'	136° 00'	58	1975	Aug.	20	1529	10	50
	41	70° 19'	136° 38'	60	1975	Aug.	20	1901	11	bottom
	42	70° 01'	136° 33'	30	1975	Aug.	20	0010	9	bottom
	43	69° 44'	136° 36'	15	1975	Aug.	21	0500	7	bottom
	44	69° 38'	137° 19'	48	1975	Aug.	21	0844	10	bottom
	45	69° 45'	138° 07'	155	1975	Aug.	21	1635	14	bottom
	46	69° 25'	138° 04'	65	1975	Aug.	21	2104	12	bottom
	47	69° 38'	137° 49'	27	1975	Aug.	21	0044	9	bottom
	48	70° 10'	133° 25'	27	1975	Aug.	23	1015	6	25
					1975	Aug.	23	1118	6	25
					1975	Aug.	23	1210	6	25
					1975	Aug.	23	1327	6	25
					1975	Aug.	23	1420	6	25
75-0009	101	69° 54.0'	134° 09.0'	13	1975	Aug.	20	1800	2	8
	102	70° 05.5'	134° 26.0'	26	1975	Aug.	20	2320	3	21
	104	70° 15.5'	134° 41.6'	40	1975	Aug.	21	0210	4	38
	105	70° 22.5'	134° 53.3'	57	1975	Aug.	21	0515	4	48

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
75-0009	106	70° 34.0'	135° 26.0'	66	1975	Aug.	21	0754	5	60
	107	70° 39.0'	135° 39.0'	155	1975	Aug.	21	1045	9	151
	109	69° 36.8'	139° 32.8'	14	1975	Aug.	23	2035	2	10
	110	69° 48.5'	139° 39.3'	36	1975	Aug.	23	2300	4	32
	111	69° 57.6'	139° 31.2'	53	1975	Aug.	24	0115	4	48
	112	70° 08.2'	139° 25 4'	197	1975	Aug.	24	0345	6	148
	153	69° 29.9'	138° 47.8'	76	1975	Sept.	2	2100	5	70
	168	69° 50.5'	136° 18.9'	19	1975	Sept.	5	1845	3	15
	172	70° 13.0'	132° 43.6'	35	1975	Sept.	7	0110	3	25
	173	70° 24.3'	132° 55.0'	42	1975	Sept.	7	0213	4	38
	174	70° 08.2'	133° 01.0'	53	1975	Sept.	7	0522	4	48
	175	70° 47.5'	133° 23.0'	65	1975	Sept.	7	1600	4	58
	179	70° 02.8'	132° 30.8'	21	1975	Sept.	8	1525	3	18
	180	69° 53.1'	132° 21.3'	11	1975	Sept.	8	1712	2	6
	183	69° 56.7'	133° 03.0'	17	1975	Sept.	8	1945	1	0
	184	69° 58.3'	133° 50.0'	21	1975	Sept.	8	2124	1	0
	188	69° 59.5'	134° 24.5'	17	1975	Sept.	8	2345	1	0
	189	70° 09.3'	133° 58.0'	36	1975	Sept.	9	0155	1	0
	193	70° 16.4'	133° 34.8'	53	1975	Sept.	9	1740	1	0
75-0010A	75-508	69° 34.8'	131° 18'	23.5	1975	Feb.	28	0515	7	20
	75-515	69° 32'	131° 11'	48	1975	Feb.	29	0340	6	40
	75-508	69° 34.8'	131° 18'	24	1975	Feb.	27	2100-2300	5	1.50
75-0010B	75-515	69° 32'	131° 11'	47.5	1975	June	15	2217	7	40
	75-515	69° 32'	131° 11'	37	1975	June	26	0100	6	35
	75-515	69° 32'	131° 11'	49	1975	July	02	0212	7	40
	75-515	69° 32'	131° 11'	43	1975	July	09	1800	7	40
	75-515	69° 32'	131° 11'	48.5	1975	July	15	1515	7	40
	75-515	69° 32'	131° 11'	40	1975	July	21	1930	3	20
75-0011	1	* 69° 22.7'	135° 06'		1975	Apr.	11		1	0
	1	* 69° 22.7'	135° 06'		1975	June	10		1	0
	1	* 69° 22.7'	135° 06'		1975	June	21		1	0
	1	* 69° 22.7'	135° 06'		1975	Aug.	16		1	0
	1	* 69° 22.7'	135° 06'		1975	Sept.	27		1	0
	6	* 69° 25.1'	135° 08.5'		1975	June	21		1	0
	6	* 69° 25.1'	135° 08.5'		1975	Aug.	16		1	0
	6	* 69° 25.1'	135° 08.5'		1975	Sept.	27		1	0
	7	* 69° 25.9'	135° 09.9'		1975	June	21		1	0
	7	* 69° 25.9'	135° 09.9'		1975	Aug.	16		1	0
	7	* 69° 25.9'	135° 09.9'		1975	Sept.	27		1	0
	9	* 69° 23.2'	135° 06.3'		1975	June	21		1	0
	9	* 69° 23.2'	135° 06.3'		1975	Aug.	16		1	0
	9	* 69° 23.2'	135° 06.3'		1975	Sept.	27		1	0
	10	* 69° 23.6'	135° 08.5'		1975	June	21		1	0

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
75-0011	10	* 69° 23.6'	135° 08.5'		1975	Aug.	16		1	0
	10	* 69° 23.6'	135° 08.5'		1975	Sept.	27		1	0
	11	* 69° 24.1'	135° 06.6'		1975	Sept.	27		1	0
	12	* 69° 21.5'	135° 03.0'		1975	Apr.	9		1	0
	12	* 69° 21.5'	135° 03.0'		1975	June	10		1	0
	12	* 69° 21.5'	135° 03.0'		1975	Sept.	27		1	0
	18	* 69° 22.1'	135° 02.5'		1975	Apr.	11		1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	10		1	0
	18	* 69° 22.1'	135° 02.5'		1975	Sept.	27		1	0
	18	* 69° 22.1'	135° 02.5'		1975	May	05	1900	1	0
	18	* 69° 22.1'	135° 02.5'		1975	May	06	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	01	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	02	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	02	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	03	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	03	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	03	2300	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	04	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	05	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	06	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	07	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	07	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	07	2300	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	08	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	08	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	09	0600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	09	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	10	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	11	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	11	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	12	0530	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	12	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	13	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	13	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	14	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	14	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	15	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	15	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	16	0025	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	16	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	17	0430	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	17	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	18	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	18	1600	1	0

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
75-0011	18	* 69° 22.1'	135° 02.5'		1975	June	19	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	19	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	20	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	21	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	21	1600	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	22	0400	1	0
	18	* 69° 22.1'	135° 02.5'		1975	June	22	1600	1	0
	19	* 69° 22.7'	135° 01'		1975	June	08	1600	1	0
	19	* 69° 22.7'	135° 01'		1975	Sept.	27	1600	1	0
	20	-	-		1975	Sept.	29	1600	1	0
75-0012A	75-562	69° 35'	133° 05'		1975	May	05	2200	1	1
	75-563	69° 27'	133° 01'		1975	May	09	1900	1	1
	75-564	69° 40'	132° 40'		1975	May	09	2200	1	1
75-0012B	75-565	70° 08'	132° 37'	31	1975	June	17	2206	8	30
	75-566	70° 06'	138° 56'	318	1975	July	05	2200	11	315
	75-567	70° 49'	136° 22'	720	1975	July	12	2400	13	720
	75-568	70° 14'	139° 04'	408	1975	July	18	2115	12	403
75-0024	3	* 69° 11.0'	135° 01.0'	1.5	1975	Mar.	8		1	0
	8	* 69° 25.0'	134° 50.0'	1.8	1975	Mar.	9		1	0
	9	* 69° 28.0'	134° 30.0'	4.2	1975	Mar.	10		1	0
	10	* 69° 35.0'	134° 08.0'	4.2	1975	Mar.	11		1	0
	5	* 69° 32.5'	135° 22.0'	2.6	1975	Mar.	12		1	0
	11	* 69° 29.0'	133° 27.0'	1.0	1975	Mar.	14		1	0
	12	* 69° 07.0'	134° 20.0'		1975	Mar.	18		1	0
	22	* 69° 32.0'	135° 20.0'		1975	Mar.	12		1	0
	41	* 69° 25.0'	134° 50.0'		1975	Mar.	9		1	0
	46	* 69° 30.5'	134° 30.0'		1975	Mar.	10		1	0
	54	* 69° 34.0'	134° 10.0'		1975	Mar.	11		1	0
	58	* 69° 29.0'	133° 25.0'		1975	Mar.	15		1	0
75-0025	B	* 69° 34.0'	138° 57.0'	5.0	1975	May			1	0
	C	* 69° 22.0'	138° 44.5'	7.0	1975	May			1	0
	D	* 69° 16.3'	138° 34.0'	7.0	1975	May			1	0
	E	* 69° 07.3'	137° 57.0'	16.0	1975	May			1	0
	F	* 69° 04.0'	137° 45.0'	12.0	1975	May			1	0
	G	* 69° 00.6'	137° 13.0'	4.5	1975	May			1	0

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
75-0028A	DH1	a 70° 02.00'	124° 54.00'	6.9	1975	May	18	1830	16	6.9
	BH7	a 70° 02.00'	124° 54.00'	-	1975	June	6	1710	1	3.5
	BH7	a 70° 02.00'	124° 54.00'	-	1975	June	7	2005	1	5.0
	BH7	a 70° 02.00'	124° 54.00'	-	1975	June	10	2120	1	3.0
	BH7	a 70° 02.00'	124° 54.00'	-	1975	June	11	1932	1	2.5
	BH7	a 70° 02.00'	124° 54.00'	-	1975	June	13	-	1	2.5
	SH1	a 70° 02.00'	124° 54.00'	5.0	1975	June	24	2300	6	5.0
	NW6	a 70° 02.00'	124° 54.00'	7.0	1975	June	14	2300	8	7.0
	NW6	a 70° 02.00'	124° 54.00'	-	1975	June	17	0155	1	3.0
	NW6	a 70° 02.00'	124° 54.00'	-	1975	June	18	2026	1	2.0
	NW6	a 70° 02.00'	124° 54.00'	-	1975	June	23	2246	1	2.0
75-0028B	DH2	b 70° 02.00'	124° 54.00'	-	1975	May	25	-	2	5
	BH7	b 70° 02.00'	124° 54.00'	-	1975	May	25	-	2	5
	DH1	b 70° 02.00'	124° 54.00'	-	1975	June	8	-	2	5
	CH1	b 70° 02.00'	124° 54.00'	-	1975	June	8	-	2	5
	DH2	b 70° 02.00'	124° 54.00'	-	1975	June	8	-	2	5
	NW2	b 70° 02.00'	124° 54.00'	-	1975	June	8		2	5
	NW4	b 70° 02.00'	124° 54.00'	-	1975	June	8		2	5
	SH1	b 70° 02.00'	124° 54.00'	-	1975	June	8		2	5
	SH2	b 70° 02.00'	124° 54.00'	-	1975	June	8		2	5
	NW6	b 70° 02.00'	124° 54.00'	-	1975	June	8		2	5
	BH6	b 70° 02.00'	124° 54.00'	-	1975	June	11		2	5
	BH7A	b 70° 02.00'	124° 54.00'	-	1975	June	11		2	5
	BH8	b 70° 02.00'	124° 54.00'	-	1975	June	11		2	5
	II control	b 70° 02.00'	124° 54.00'	-	1975	June	26		1	2.5
	NW6	b 70° 02.00'	124° 54.00'	-	1975	June	30		1	2.5
76-0003	Isserk H-47	69° 56'	134° 25'	11.5	1976	Aug.	14		2 1	11.5 bottom
	Isserk H-47	69° 56'	134° 25'	11.8	1976	Aug.	15		2	11.8
	Isserk N2.0	69° 56'	134° 25'	16.0	1976	Aug.	14		2	16.0
	Isserk E1.0	69° 56'	134° 25'	16.0	1976	Aug.	14		1 2	bottom 16.0
	Isserk NN	69° 59'	134° 23'	16.0	1976	Aug.	30		1 2	bottom 16.0
	Isserk NNE	69° 59'	134° 23'	16.0	1976	Aug.	30		1 2	bottom 16.0
	Kannerk	70° 00'	131° 12'	11.3	1976	Aug.	16		1 2	bottom 11.3

a All stations are within 75 m in Balaena Bay (70° 02.00' N; 124° 54.00' W)
b All stations are within 875 m in Balaena Bay (70° 02.00' N; 124° 54.00' W)

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
76-0003	Kannerk W1.5	70° 00'	131° 13'	9.4	1976	Aug.	16		2	9.4
	Minuk	69° 43'	136° 28'	-	1976	Sept.	05		2	near bottom
									1	bottom
	Kadluk	69° 49'	136° 10'	-	1976	Sept.	07		2	near bottom
									1	bottom
	Paktaq	69° 39'	136° 25'	-	1976	Sept.	02		2	near bottom
									1	bottom
	Nipterk	69° 46'	135° 28'	-	1976	Sept.	01		2	near bottom
									1	bottom
	Minuk Block	69° 47'	136° 45'	-	1976	Sept.	03		2	near bottom
									1	bottom
	Igalak	69° 44'	135° 13'	-	1976	Sept.	03		2	near bottom
									1	bottom
	Ernerk	69° 44'	133° 03'	-	1976	Sept.	03		2	near bottom
									1	bottom
76-0004	E 1.0	[a] 69° 43.35'	132° 37.64'	5	1976	July	18	-	1	0
	E 0.5	[a] 69° 43.35'	132° 37.64'	5.75	1976	July	18	-	1	0
	E 0.3	[a] 69° 43.35'	132° 37.64'	6.0	1976	July	18	-	1	0
	Breakwater Site	[a] 69° 43.35'	132° 37.64'	6.0	1976	July	17	-	1	0
	W 1.0	[a] 69° 43.35'	132° 37.64'	7.0	1976	July	19	-	1	0
	W 0.5	[a] 69° 43.35'	132° 37.64'	6.7	1976	July	19	-	2	6.7
	W 0.03	[a] 69° 43.35'	132° 37.64'	6.5	1976	July	19	-	1	0
	N 1.0	[a] 69° 43.35'	132° 37.64'	6.0	1976	July	20	-	1	0
	N 0.5	[a] 69° 43.35'	132° 37.64'	7.0	1976	July	20	-	1	0
	N 0.3	[a] 69° 43.35'	132° 37.64'	6.0	1976	July	20	-	1	0
	S 1.0	[a] 69° 43.35'	132° 37.64'	5.0	1976	July	20	-	1	0
	S 0.5	[a] 69° 43.35'	132° 37.64'	4.5	1976	July	20		1	0
	S 0.3	[a] 69° 43.35'	132° 37.64'	4.9	1976	July	18		1	0
	NW1.5	[a] 69° 43.35'	132° 37.64'	6.0	1976	July	20		1	0
	NW1.5 control	[a] 69° 43.35'	132° 37.64'	8.0	1976	Sept.	2		2	8.0
	Breakwater SW	[a] 69° 43.35'	132° 37.64'	6.0	1976	Sept.	2		2	6.0
	SW 1.0	[a] 69° 43.35'	132° 37.64'	6.0	1976	Sept.	3		2	6.0
	SW 0.5	[a] 69° 43.35'	132° 37.64'	6.0	1976	Sept.	3		2	6.0
	SW 0.3	[a] 69° 43.35'	132° 37.64'	6.0	1976	Sept.	3		2	6.0
	NE 1.0	[a] 69° 43.35'	132° 37.64'	6.5	1976	Sept.	2		2	6.5
	NE 0.5	[a] 69° 43.35'	132° 37.64'	5.6	1976	Sept.	2		2	5.6
	NE 0.3	[a] 69° 43.35'	132° 37.64'	6.0	1976	Sept.	2		2	6.0
	SE 1.0	[a] 69° 43.35'	132° 37.64'	4.5	1976	Sept.	2		1	1.0
	SE 0.5	[a] 69° 43.35'	132° 37.64'	4.0	1976	Sept.	2		2	4.0
	SE 0.3	[a] 69° 43.35'	132° 37.64'	5.0	1976	Sept.	2		2	5.0
	NW1.0	[a] 69° 43.35'	132° 37.64'	8.0	1976	Sept.	2		2	8.0
	NW0.5	[a] 69° 43.35'	132° 37.64'	6.0	1976	Sept.	2		2	6.0
	NW0.3	[a] 69° 43.35'	132° 37.64'	6.0	1976	Sept.	2		2	6.0

[a] All stations are within 1.5 miles of the dredge site (69° 43.35' N, 132° 37.64' W)

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
76-0005	N 1.5	b 69° 48.00'	133° 45.5'	9.75	1976	July	29		2	9.75
	N 1.5	b 69° 48.00'	133° 45.5'	9.45	1976	July	31		3	8.0
	N 1.5	b 69° 48.00'	133° 45.5'	10.06	1976	Aug.	5		2	7.0
	N 1.5	b 69° 48.00'	133° 45.5'	9.50	1976	Aug.	5		2	8.0
	N 1.5	b 69° 48.00'	133° 45.5'	9.50	1976	Aug.	6		2	8.0
	N 1.5	b 69° 48.00'	133° 45.5'	9.14	1976	Aug.	11		2	8.0
	N 1.5	b 69° 48.00'	133° 45.5'	10.06	1976	Aug.	20		2	10.0
	N 1.5	b 69° 48.00'	133° 45.5'	10.06	1976	Aug.	24		2	10.0
	N 1.5	b 69° 48.00'	133° 45.5'	10.06	1976	Sept.	4		2	9.0
	N 1.0	b 69° 48.00'	133° 45.5'	8.8	1976	July	29		1	8.8
	N 1.0	b 69° 48.00'	133° 45.5'	9.45	1976	Aug.	10		2	9.0
	N 1.0	b 69° 48.00'	133° 45.5'	9.30	1976	Sept.	4		2	8.0
	N 0.5	b 69° 48.00'	133° 45.5'	8.50	1976	July	29		2	8.0
	N 0.5	b 69° 48.00'	133° 45.5'	8.84	1976	Aug.	24		2	8.0
	N 0.5	b 69° 48.00'	133° 45.5'	8.69	1976	Sept.	4		2	8.0
	N 0.3	b 69° 48.00'	133° 45.5'	8.83	1976	Sept.	4		2	8.0
	N 0.25	b 69° 48.00'	133° 45.5'	8.50	1976	July	28		2	8.0
	N 0.25	b 69° 48.00'	133° 45.5'	8.50	1976	July	29		3	3.0
	W 1.0	b 69° 48.00'	133° 45.5'	8.62	1976	July	29		2	8.6
	W 1.0	b 69° 48.00'	133° 45.5'	7.92	1976	Aug.	10		2	7.5
	W 1.0	b 69° 48.00'	133° 45.5'	8.53	1976	Sept.	6		2	8.0
	W 0.5	b 69° 48.00'	133° 45.5'	7.77	1976	July	29		2	7.7
	W 0.5	b 69° 48.00'	133° 45.5'	7.92	1976	Aug.	22		2	7.0
	W 0.5	b 69° 48.00'	133° 45.5'	7.92	1976	Aug.	24		2	7.0
	W 0.3	b 69° 48.00'	133° 45.5'	9.14	1976	Sept.	5		1	1.0
	W 0.25	b 69° 48.00'	133° 45.5'	7.77	1976	July	29		2	8.0
	S 1.0	b 69° 48.00'	133° 45.5'	7.32	1976	July	30		2	7.3
	S 1.0	b 69° 48.00'	133° 45.5'	7.32	1976	Aug.	10		2	7.0
	S 1.0	b 69° 48.00'	133° 45.5'	7.62	1976	Sept.	4		2	7.0
	S 0.5	b 69° 48.00'	133° 45.5'	7.47	1976	July	29		3	9.0
	S 0.5	b 69° 48.00'	133° 45.5'	7.62	1976	Aug.	10		2	7.0
	S 0.5	b 69° 48.00'	133° 45.5'	7.92	1976	Aug.	24		2	7.0
	S 0.5	b 69° 48.00'	133° 45.5'	7.77	1976	Sept.	4		2	8.0
	S 0.3	b 69° 48.00'	133° 45.5'	8.23	1976	Sept.	4		2	8.0
	S 0.25	b 69° 48.00'	133° 45.5'	7.62	1976	July	29		2	8.0
	S 0.25	b 69° 48.00'	133° 45.5'	7.92	1976	Aug.	10		2	7.9
	E 1.0	b 69° 48.00'	133° 45.5'	9.45	1976	Aug.	10		2	9.0
	E 1.0	b 69° 48.00'	133° 45.5'	9.14	1976	Sept.	5		2	9.0
	E 0.5	b 69° 48.00'	133° 45.5'	8.38	1976	Aug.	24		2	7.0
	E 0.5	b 69° 48.00'	133° 45.5'	8.84	1976	Sept.	4		3	8.5
	E 0.3	b 69° 48.00'	133° 45.5'	8.53	1976	Aug.	5		2	8.0
	E 0.3	b 69° 48.00'	133° 45.5'	8.53	1976	Sept.	5		2	8.5
	E 0.125 plume	b 69° 48.00'	133° 45.5'	8.0	1976	Aug.	6		2	8.0
	SW 0.125 plume	b 69° 48.00'	133° 45.5'	7.62	1976	Aug.	11		2	7.6
	NW0.5	b 69° 48.00'	133° 45.5'	7.92	1976	Aug.	27		2	1.0
	SSW0.25	b 69° 48.00'	133° 45.5'	7.62	1976	Aug.	27		1	0

b All stations are within 1.5 miles of the Arnak L-30 artificial island site (69° 48.00' N, 133° 45.5' W).

DATA SET NUMBER	STATION NUMBER	LATITUDE	LONGITUDE	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
		°N	°W		YEAR	MONTH	DAY	HOUR GMT		
76-0005	Plume stn.	b 69° 48.00'	133° 45.5'	7.92	1976	July	31		2	7.9
	Island outfall	b 69° 48.00'	133° 45.5'	1.22	1976	Aug.	20		1	0
	Piume east	b 69° 48.00'	133° 45.5'	-	1976	July	31		1	4
	Plume 0.5 MI	b 69° 48.00'	133° 45.5'	-	1976	Aug.	1		1	-
	Plume 1/4 MI	b 69° 48.00'	133° 45.5'	-	1976	Aug.	1		1	-
	Plume 1/8 MI	b 69° 48.00'	133° 45.5'	-	1976	Aug.	1		1	-
	Plume	b 69° 48.00'	133° 45.5'	-	1976	July	31		1	2.0
	Plume 1300	b 69° 48.00'	133° 45.5'	-	1976	July	31		2	7.0
	Plume top	b 69° 48.00'	133° 45.5'	-	1976	Aug.	5		1	-
	Plume top	b 69° 48.00'	133° 45.5'	-	1976	Aug.	11		1	-
	Plume bottom	b 69° 48.00'	133° 45.5'	-	1976	Aug.	5		1	-
	Plume bottom	b 69° 48.00'	133° 45.5'	-	1976	Aug.	11		1	-
76-0006	25° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	25° 1000 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	25° 2640 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	60° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	60° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	60° 1000 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	90° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	90° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	150° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	150° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	150° 1000 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	180° 150 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	215° 150 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	215° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	215° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	235° 150 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	235° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	235° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	235° 1000 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	270° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	270° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	270° 1000 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	285° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	285° 500 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	285° 1000 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom
	325° 300 ft.	a 69° 39.5'	135° 54.5'	-	1976	Aug.	28-29	-	1	bottom

b All stations are within 1.5 miles of the Arnak L-30 artificial island site (69° 48.00' N, 133° 45.5' W).

a All stations are located within 2640 feet of Netserk F-40 (69° 39.5'N 135° 54.5' W).

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
77-0001	1	* 69° 45.0'	135° 27.0'	1.0	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	2	* 68° 52.0'	135° 56.0'	3.6	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	3	* 68° 57.0'	136° 19.0'	1.8	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	4	* 68° 56.0'	136° 40.0'	2.0	1977	July	19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	5	* 68° 56.5'	137° 02.0'	2.0	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	6	* 69° 04.0'	136° 20.0'	2.1	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	7	* 69° 04.0'	136° 40.0'	1.2	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	8	* 69° 03.5'	137° 02.0'	2.0	1977	July	19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	9	* 69° 03.0'	137° 30.0'	7.0	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
77-0001	10	* 69° 11.0'	136° 18.0'	0.5	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	11	* 69° 10.5'	136° 40.0'	1.6	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	12	* 69° 10.3'	137° 03.0'	3.8	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	13	* 69° 10.1'	137° 30.0'	17.8	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	14	* 69° 18.2'	135° 55.5'	0.5	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	15	* 69° 18.0'	136° 13.0'	1.2	1977	July	19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	16	* 69° 18.0'	136° 40.2'	2.8	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	17	* 69° 17.5'	137° 05.0'	7.0	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	18	* 69° 17.5'	137° 33.0'	34.0	1977	July	4, 19-20, 25		2	bottom
						Aug.	4, 11		2	bottom
	19	* 69° 25.0'	135° 49.0'	1.4	1977	July	19-20, 25		2	bottom
						Aug.	4		2	bottom
	20	* 69° 24.5'	136° 13.0'	2.7	1977	July	19-20, 25		2	bottom
						Aug.	4		2	bottom
	21	* 69° 24.5'	136° 40.2'	6.0	1977	July	19-20, 25		2	bottom
						Aug.	4		2	bottom
	22	* 69° 24.0'	137° 05.0'	16.0	1977	July	4, 19-20, 25		2	bottom
						Aug.	4		2	bottom
	23	* 69° 24.0'	137° 35.0'	44.0	1977	July	4, 19-20, 25		2	bottom
						Aug.	4		2	bottom
	24	* 69° 31.0'	137° 35.0'	10.5	1977	July	19-20		2	bottom
	25	* 69° 31.0'	136° 40.2'	52.3	1977	July	19-20, 25		2	bottom
						Aug.	4		2	bottom
	26	* 69° 29.5'	135° 42.0'	1.0	1977	July	25		2	bottom
						Aug.	4		2	bottom

* - Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
77-0002	1	69° 44.3'	132° 30.6'	-	1977	July	23		2	0
	1	69° 44.3'	132° 30.6'	-	1977	Aug.	30		2	0
	2	69° 42.0'	132° 16.2'	-	1977	July	22		2	0
	2	69° 42.0'	132° 16.2'	-	1977	Aug.	30		2	0
	3	69° 44.5'	132° 21.1'	-	1977	July	21		2	0
	3	69° 44.5'	132° 21.1'	-	1977	Aug.	30		2	0
	4	69° 46.3'	132° 14.0'	-	1977	July	21		2	0
	4	69° 46.3'	132° 14.0'	-	1977	Aug.	30		2	0
	5	69° 43.3'	132° 36.5'	-	1977	July	17		2	0
	5	69° 43.3'	132° 36.5'	-	1977	Aug.	27		2	0
	6	69° 43.2'	132° 33.7'	-	1977	July	16		2	0
	6	69° 43.2'	132° 33.7'	-	1977	Aug.	28		2	0
	7	69° 43.1'	132° 38.2'	-	1977	July	17		2	0
	7	69° 43.1'	132° 38.2'	-	1977	Aug.	27		2	0
	8	69° 42.1'	132° 34.8'	-	1977	July	16		2	0
	9	69° 39.0'	132° 40.5'	-	1977	July	18		2	0
	9	69° 39.0'	132° 40.5'	-	1977	Aug.	31		2	0
	10	69° 38.9'	132° 37.4'	-	1977	July	18		2	0
	10	69° 38.9'	132° 37.4'	-	1977	Aug.	31		2	0
	11	69° 40.0'	132° 28.4'	-	1977	July	19		2	0
	11	69° 40.0'	132° 28.4'	-	1977	Sept.	2		2	0
	12	69° 39.2'	132° 28.4'	-	1977	July	19		2	0
	12	69° 39.2'	132° 28.4'	-	1977	Sept.	2		2	0
77-0003	14	71° 13.67'	124° 32.97'	330	1977	Aug.	11	1457	13	300
	15	71° 02.55'	124° 44.43'	345	1977	Aug.	11	1055	13	bottom
	16	70° 48.42'	125° 02.63'	310	1977	Aug.	11	0635	12	300
	17	70° 35.22'	125° 15.47'	250	1977	Aug.	11	0232	11	240
	19	70° 16.57'	126° 59.95'	120	1977	Aug.	14	0845	9	bottom
	20	70° 36.48'	126° 37.32'	246	1977	Aug.	14	1237	15	bottom
	21	70° 55.25'	126° 27.67'	343	1977	Aug.	14	1637	13	320
	22	71° 17.12'	126° 25.18'	460	1977	Aug.	14	2159	16	450
	23	71° 37.42'	126° 28.87'	470	1977	Aug.	15	0222	17	bottom
	24	70° 36.03'	121° 46.97'	538	1977	Aug.	21	1353	17	bottom
	25	70° 12.35'	121° 19.27'	398	1977	Aug.	21	1929	15	bottom
	26	69° 59.20'	121° 09.00'	370	1977	Aug.	21	2313	15	350
	27	70° 34.20'	119° 19.63'	337	1977	Aug.	29	1651	16	bottom
	28	71° 01.75'	119° 11.28'	168	1977	Aug.	29	2212	12	bottom
	29	71° 22.35'	119° 04.68'	120	1977	Aug.	30	0158	11	bottom
	30	70° 34.50'	120° 26.02'	321	1977	Sept.	6	1731	15	bottom
	31	70° 49.12'	120° 34.20'	270	1977	Sept.	6	2052	14	250
	32	71° 01.93'	120° 40.97'	170	1977	Sept.	6	2340	13	170

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
77-0006	14	* 69° 34'	138° 51'	-	1977	-	-	-	1	bottom
	15	* 69° 17'	138° 37'	-	1977	-	-	-	1	bottom
	16	* 69° 18'	138° 24'	-	1977	-	-	-	1	bottom
	17	* 69° 07'	137° 59'	-	1977	-	-	-	1	bottom
	18	* 69° 00'	137° 30'	-	1977	-	-	-	1	bottom
	20	* 69° 10'	134° 30'	-	1977	-	-	-	1	bottom
	21	* 68° 20'	134° 08'	-	1977	-	-	-	1	bottom
	22	* 69° 10'	134° 30'	-	1977	-	-	-	1	bottom
	23	* 69° 10'	134° 30'	-	1977	-	-	-	1	bottom
	24	* 68° 14'	134° 46'	-	1977	-	-	-	1	bottom
	25	* 68° 14'	134° 46'	-	1977	-	-	-	1	bottom
	26	* 69° 24'	133° 55'	-	1977	-	-	-	1	bottom
	27	* 69° 23.5'	133° 35'	-	1977	-	-	-	1	bottom
	28	* 69° 23.5'	133° 24'	-	1977	-	-	-	1	bottom
	29	* 69° 27'	133° 03'	-	1977	-	-	-	1	bottom
	30	* 69° 57'	131° 26'	-	1977	-	-	-	1	bottom
	31	* 70° 09'	130° 24'	-	1977	-	-	-	1	bottom
	21	* 68° 20'	134° 08'	-	1979	-	-	-	1	bottom
77-0007	Kaglulik A75 B	70° 34.13'	130° 51.38'	88	1977	July	11		5 6	- bottom
	Kaglulik A75 A	70° 34.13'	130° 51.38'	88	1977	July	12		4	bottom
	Kaglulik A75 C	70° 33.96'	130° 52.89'	88	1977	July	13		10	bottom
	Ukalerk C50 A	70° 9.13'	132° 43.88'	91	1977	July	18		2 10	- bottom
	Kopanoar M13	70° 23.38'	135° 4.99'	191	1977	July	21		3 4	- bottom
	Natsek E56 B	69° 45.34'	139° 44.64'	105	1977	Aug.	5		5 6	- bottom
	Natsek E56 A	69° 46.22'	139° 44.16'	105	1977	Aug.	6		7	bottom
	Natsek E56 C	69° 44.94'	139° 26.85'	105	1977	Aug.	6		7	bottom
	Natsek E56 D	69° 44.90'	139° 42.50'	105	1977	Aug.	6		4	bottom
	Sissuak B	69° 59.30'	139° 34.68'	135	1977	Aug.	6		5 3	- bottom
	Sissuak A	69° 52.21'	139° 34.64'	135	1977	Aug.	7		4	bottom
	Sissuak C	69° 50.81'	139° 32.60'	135	1977	Aug.	7		3	bottom
	Sissuak D	69° 50.89'	139° 36.90'	135	1977	Aug.	7		4	bottom
	Nerlerk M98 A	70° 27.82'	133° 29.78'	180	1977	Aug.	13		6	bottom
	Nerlerk M98 B	70° 27.82'	133° 29.78'	180	1977	Aug.	14		5 6	- bottom
	Nerlerk M98 C	70° 27.82'	133° 29.78'	180	1977	Aug.	14		6	bottom
	Nerlerk M98 D	70° 27.82'	133° 29.78'	180	1977	Aug.	14		6	bottom
	Kaglulik A75 A	70° 34.13'	130° 51.38'	88	1977	Aug.	17		6	bottom
	Kaglulik A75 C	70° 34.13'	130° 51.38'	88	1977	Aug.	17		5	bottom
	Kaglulik A75 D	70° 34.13'	130° 51.38'	88	1977	Aug.	17		6	bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
77-0007	Kaglulik C24 A	* 70° 43.7'	130° 6.2'	105	1977	Aug.	18		5	bottom
	Kaglulik C24 B	70° 43.19'	130° 8.21'	105	1977	Aug.	18		5	-
									5	bottom
	Kaglulik C24 C	* 70° 43.1'	130° 6.9'	105	1977	Aug.	18		6	bottom
	Kaglulik C24 D	* 70° 43.2'	130° 10.8'	105	1977	Aug.	18		6	bottom
	Silukoak F96 B	70° 25.28'	134° 29.00'	180	1977	Aug.	31		6	bottom
	Silukoak F96 B	70° 25.28'	134° 29.00'	180	1977	Sept.	1		6	bottom
	Silukoak F96 A	* 70° 24.8'	134° 26.7'	180	1977	Sept.	1		6	bottom
	Silukoak F96 C	* 70° 24.5'	134° 27.7'	180	1977	Sept.	1		5	bottom
	Silukoak F96 D	* 70° 25.3'	134° 31.6'	180	1977	Sept.	1		6	bottom
	Kenalooak J94 B	70° 43.63'	133° 58.13'	230	1977	Sept.	3		5	-
									5	bottom
	Kenalooak J94 A	* 70° 44.1'	133° 55.8'	230	1977	Sept.	4		5	bottom
	Kenalooak J94 C	* 70° 42.8'	133° 56.8'	230	1977	Sept.	4		5	bottom
	Kenalooak J94 D	* 70° 43.63'	133° 60.7'	230	1977	Sept.	4		5	bottom
	Miterk I40 B	* 70° 35'	134° 85'	196	1977	Sept.	5		5	-
									6	bottom
	Miterk I40 A	* 70° 36'	134° 83'	196	1977	Sept.	5		6	bottom
	Miterk I40 C	* 70° 34'	134° 84'	196	1977	Sept.	5		6	bottom
	Miterk I40 D	* 70° 35'	134° 88'	196	1977	Sept.	5		5	bottom
77-0008	N-25-1	* 69° 39.4'	135° 54.5'	3	1977	Aug.	18		1 3	- bottom
	N-25-3	69° 39.4'	135° 54.4'	7	1977	Aug.	19		1 4	- bottom
	N-25-4	69° 39.5'	135° 54.4'	7	1977	Aug.	19		1 4	- bottom
	N-60-3	69° 39.4'	135° 54.3'	7	1977	Aug.	20		1 5	- bottom
	N-60-4	69° 39'	135° 54.1'	7	1977	Aug.	20		1 6	- bottom
	N-60-5	69° 39.6'	135° 53.3'	7	1977	Aug.	20		1 6	- bottom
	N-60-6	69° 39.9'	135° 52.0'	7	1977	Aug.	20		1 6	- bottom
	N-90-1	69° 39.4'	135° 54.4'	7	1977	Aug.	17		2 2	- bottom
	N-90-2	69° 39.4'	135° 54.4'	7	1977	Aug.	17		1 7	- bottom
	N-90-3	69° 39.4'	135° 54.3'	7	1977	Aug.	17		1 4	- bottom
	N-90-4	69° 39.4'	135° 54.0'	7	1977	Aug.	17		1 6	- bottom
	N-150-1	69° 39.4'	135° 54.5'	7	1977	Aug.	16		2 2	- bottom
	N-150-2	69° 39.3'	135° 54.4'	7	1977	Aug.	16		2 4	- bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
77-0008	N-150-3	69° 39.3'	135° 54.4'	7	1977	Aug.	16		2 5	- bottom
	N-150-4	69° 39.3'	135° 54.3'	7	1977	Aug.	15		2 4	- bottom
	N-150-5	69° 39.0'	135° 53.8'	7	1977	Aug.	15		2 4	- bottom
	N-150-6	69° 38.6'	135° 53.1'	6.5	1977	Aug.	15		2 4	- bottom
	N-180-1	69° 39.4'	135° 39.4'	7.5	1977	Aug.	16		1 4	- bottom
	N-180-2	69° 39.4'	135° 39.4'	7.5	1977	Aug.	16		2 7	- bottom
	N-180-3	69° 39.3'	135° 39.4'	7.5	1977	Aug.	16		2 4	- bottom
	N-215-1	69° 39.4'	135° 54.5'	7	1977	Aug.	17		3 6	- bottom
	N-215-2	69° 39.4'	135° 54.6'	7	1977	Aug.	17		1 8	- bottom
	N-215-3	* 69° 39.3'	135° 54.6'	7	1977	Aug.	14		1 4	- bottom
	N-215-4	69° 39.3'	135° 54.8'	7	1977	Aug.	14		1 6	- bottom
	N-235-1	69° 39.4'	135° 54.6'	7	1977	Aug.	17		1 10	- bottom
	N-235-2	69° 39.4'	135° 54.6'	7	1977	Aug.	17		1 4	- bottom
	N-235-3	69° 39.4'	135° 54.7'	7	1977	Aug.	14		1 6	- bottom
	N-235-4	69° 39.3'	135° 54.9'	7	1977	Aug.	14		1 6	- bottom
	N-255-1	69° 39.4'	135° 54.6'	-	1977	Aug.	14		2 8	- bottom
	N-255-2	69° 39.4'	135° 54.6'	7	1977	Aug.	15		1 4	- bottom
	N-255-3	69° 39.4'	135° 54.7'	-	1977	Aug.	14		2 6	- bottom
	N-255-4	69° 39.4'	135° 55.0'	7.5	1977	Aug.	13		2 6	- bottom
	N-255-5	69° 39.3'	135° 55.9'	7.5	1977	Aug.	13		2 8	- bottom
	N-255-6	69° 39.1'	135° 57.3'	7.5	1977	Aug.	13		2 6	- bottom
	N-270-1	69° 39.4'	135° 54.6'	7	1977	Aug.	14		1 5	- bottom
	N-270-2	69° 39.4'	135° 54.6'	7	1977	Aug.	15		1 4	- bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
77-0008	N-270-3	69° 39.4'	135° 54.7'	7.5	1977	Aug.	14		1 4	- bottom
	N-270-4	69° 39.4'	135° 55.0'	7.5	1977	Aug.	14		1 2	- bottom
	N-285-1	69° 39.4'	135° 54.6'	7	1977	Aug.			1 4	- bottom
	N-285-2	69° 39.4'	135° 54.6'	7.5	1977	Aug.			1 4	- bottom
	N-285-3	* 69° 39.4'	135° 54.7'	7.5	1977	Aug.			1 4	- bottom
	N-285-4	69° 39.4'	135° 55.0'	7.5	1977	Aug.			1 4	- bottom
	N-335-3	69° 39.5'	135° 54.6'	7	1977	Aug.	19		1 4	- bottom
	N-335-4	69° 39.5'	135° 54.7'	7.5	1977	Aug.	19		1 4	- bottom
	N-335-5	69° 39.8'	135° 55.1'	7.5	1977	Aug.	20		1 4	- bottom
	N-335-6	69° 40.3'	135° 55.7'	7	1977	Aug.	20		1 4	- bottom
	I-0-1	69° 57.8'	134° 23.1'	13	1977	Aug.	20		1 5	- bottom
	I-0-2	69° 57.8'	134° 23.1'	12	1977	Aug.	24		2 4	- bottom
	I-0-3	69° 58.0'	134° 23.1'	13	1977	Aug.	24		2 5	- bottom
	I-0-4	69° 58.5'	134° 23.1'	13.5	1977	Aug.	24		2 4	- bottom
	I-0-5	69° 58.9'	134° 23.1'	14	1977	Aug.	25		2 4	- bottom
	I-0-6	69° 59.3'	134° 23.1'	14.5	1977	Aug.	25		2 5	- bottom
	I-60-1	69° 57.7'	134° 22.7'	13	1977	Aug.	22		1 6	- bottom
	I-60-2	69° 57.7'	134° 22.6'	12.5	1977	Aug.	24		1 4	- bottom
	I-60-3	69° 57.8'	134° 22.0'	12	1977	Aug.	24		1 4	- bottom
	I-60-4	69° 58.4'	134° 20.9'	13	1977	Aug.	22		1 4	- bottom
	I-60-5	69° 58.7'	134° 19.8'	12.5	1977	Aug.	22		1 4	- bottom
	I-60-6	69° 59.1'	134° 18.7'	14	1977	Aug.	22		1 4	- bottom
	I-120-1	69° 57.5'	134° 22.7'	12	1977	Aug.	25		1 6	- bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
77-0008	I-120-2	69° 57.5'	134° 22.6'	12	1977	Aug.	25		1 5	- bottom
	I-120-3	69° 57.4'	134° 22.0'	12.5	1977	July	25		1 4	- bottom
	I-120-4	69° 56.9'	134° 20.9'	12	1977	July	25		1 4	- bottom
	I-120-5	69° 56.5'	134° 19.8'	12	1977	July	25		1 4	- bottom
	I-120-6	69° 56.1'	134° 18.7'	12	1977	July	26		1 5	- bottom
	I-180-1	69° 57.4'	134° 23.1'	-	1977	July	20		1 4	- bottom
	I-180-2	69° 57.4'	134° 23.1'	13.5	1977	July	20		1 4	- bottom
	I-180-3	69° 57.2'	134° 23.1'	14	1977	July	20		1 6	- bottom
	I-180-4	69° 56.7'	134° 23.1'	13.5	1977	July	20		1 4	- bottom
	I-180-5	69° 56.3'	134° 23.1'	14	1977	July	20		1 6	- bottom
	I-180-6	69° 55.9'	134° 23.1'	11.5	1977	July	21		1 4	- bottom
	I-240-1	69° 57.5'	134° 23.5'	12.5	1977	July	25		2 6	- bottom
	I-240-2	69° 57.5'	134° 23.7'	-	1977	July	21		1 4	- bottom
	I-240-3	69° 57.4'	134° 24.2'	12	1977	July	20		1 4	- bottom
	I-240-4	69° 56.9'	134° 25.3'	12.5	1977	July	21		1 4	- bottom
	I-240-5	69° 56.5'	134° 26.4'	12	1977	July	21		1 4	- bottom
	I-240-6	69° 56.1'	134° 27.5'	11.5	1977	July	21		1 4	- bottom
	I-300-5	69° 58.7'	134° 26.4'	15	1977	July	21		1 4	- bottom
	MR-1-W	69° 13.8'	134° 13.2'	3	1977	July	27		2 4	- bottom
	MR-1-M	69° 13.8'	134° 12.9'	10.5	1977	July	27		1 2	- bottom
	MR-1-E	69° 13.4'	134° 12.4'	2.5	1977	July	31		1 4	- bottom
	MR-2-W	69° 15.6'	134° 09.1'	2	1977	July	31		1 6	- bottom
	MR-2-M	69° 15.4'	134° 09.0'	5.5	1977	July	27		1 2	- bottom
	MR-2-E	69° 15.2'	134° 08.9'	2	1977	July	31		2 1	- bottom

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
77-0008	MR-3-W	69° 16.0'	134° 06.4'	4.5	1977	July	27		3 4	- bottom
	MR-3-M	69° 15.9'	134° 06.3'	9.5	1977	July	31		1 2	- bottom
	MR-3-E	69° 15.8'	134° 06.1'	1.5	1977	July	31		1 5	- bottom
	MR-4-N	68° 53.2'	135° 00.3'	-	1977	July	28		1 3	- bottom
	MR-4-M	68° 53.1'	135° 00.6	15	1977	July	28		1 2	- bottom
	MR-4-S	68° 52.9'	135° 00.8'	2	1977	July	28		1 4	- bottom
	MR-5-N	68° 53.1'	135° 08.1'	7	1977	July	28		1 6	- bottom
	MR-5-M	68° 53.0'	135° 07.8	27	1977	July	28		1 1	- bottom
	MR-5-S	68° 52.9'	135° 07.3'	2.5	1977	July	28		2 4	- bottom
	MR-6-W	68° 53.5'	135° 11.4'	2.5	1977	July	28		1 4	- bottom
	MR-6-M	68° 53.6'	135° 10.9'	16	1977	July	28		2 2	- bottom
	MR-6-E	68° 53.6'	135° 10.4'	2	1977	July	28		1 4	- bottom
	MR-7-W	69° 22.4'	135° 54.6'	-	1977	July	29		2 4	- bottom
	MR-7-M	69° 22.4'	135° 54.6'	6	1977	July	29		1 6	- bottom
	MR-7-E	69° 22.3'	135° 54.5'	4	1977	July	29		1 5	- bottom
	MR-8-N	69° 22.0'	135° 58.1'	2.5	1977	July	29		2 6	- bottom
	MR-8-M	69° 22.0'	135° 58.1'	5	1977	July	29		1 2	- bottom
	MR-8-S	69° 21.9'	135° 58.1'	2	1977	July	29		2 6	- bottom
	MR-9-W	69° 21.2'	135° 57.1'	2	1977	July	29		1 4	- bottom
	MR-9-M	69° 21.2'	135° 57.0'	8	1977	July	29		1 2	- bottom
	MR-9-E	69° 21.1'	135° 56.8'	2	1977	July	29		1 4	- bottom
	MR-10-W	69° 13.4'	135° 09.0'	2	1977	July	30		1 4	- bottom
	MR-10-M	69° 13.5'	135° 08.8'	18	1977	July	30		1 2	- bottom
	MR-10-E	69° 13.6'	135° 08.7'	-	1977	July	30		1 4	- bottom

DATA SET NUMBER	STATION NUMBER	LATITUDE	LONGITUDE	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
		°N	°W		YEAR	MONTH	DAY	HOUR GMT		
77-0008	MR-11-W	69° 13.0'	135° 08.2'	2	1977	July	30		2 6	- bottom
	MR-11-M	69° 13.1'	135° 07.9'	12.5	1977	July	30		1 2	- bottom
	MR-11-E	69° 13.1'	135° 07.6'	2	1977	July	30		2 6	- bottom
	MR-12-W	69° 12.5'	135° 07.0'	4.5	1977	July	30		1 2	- bottom
	MR-12-M	69° 12.6'	135° 06.7'	9	1977	July	30		1 2	- bottom
	MR-12-E	69° 12.7'	135° 06.5'	2	1977	July	30		1 4	- bottom
77-0009	022-1	* 69° 56.3'	133° 20.8'	12.5	1977	Aug.	26	0100	12	12
	022-2	* 69° 56.5'	133° 20.5'	13.2	1977	Aug.	29	1630	12	12
	022-3	* 69° 57.3'	133° 19.5'	12.0	1977	Aug.	29	2330	12	12
	022-4	* 69° 59.9'	133° 16.2'	15.6	1977	Aug.	30	0015	14	14
	112-1	* 69° 56.0'	133° 20.3'	12.5	1977	Aug.	30	0000	12	12
	112-2	* 69° 55.9'	133° 19.8'	12.0	1977	Aug.	29	1530	12	12
	112-3	* 69° 55.6'	133° 17.9'	12.7	1977	Aug.	29	1800	12	12
	112-4	* 69° 54.4'	133° 10.5'	12.0	1977	Aug.	29	2200	12	12
	202-1	* 69° 55.9'	133° 21.2'	12.1	1977	Aug.	25	2230	12	12
	202-2	* 69° 55.75'	133° 21.5'	12.1	1977	Aug.	30	0530	12	12
	202-3	* 69° 55.05'	133° 22.3'	12.0	1977	Aug.	30	0300	12	12
	202-4	* 69° 52.2'	133° 25.5'	10.1	1977	Aug.	27	0030	9	9
	292-1	* 69° 56.2'	133° 21.5'	12.6	1977	Aug.	25	2330	12	12
	292-2	* 69° 56.25'	133° 22.0'	12	1977	Aug.	26	2300	12	12
	292-3	* 69° 56.55'	133° 24.0'	13.0	1977	Aug.	26	1900	12	12
	292-4	* 69° 57.75'	133° 32.0'	14.3	1977	Aug.	29	0500	13	13
77-0010	Tingmiark K-91	* 70° 14.0'	132° 50.0'	-	1977	Sept. Oct.	14- 4		a	41
	Ukalerk C-50	* 70° 10.0'	132° 30.0'	-	1977	-	-	-	1	28
78-0002	0	* 70° 10.6'	130° 58'	31	1978	July	15	1100	2 5	30 bottom
	1 NE	* 70° 10.6'	130° 58'	34	1978	July	15	1320	3 3	34 bottom
	2 NE	* 70° 10.6'	130° 58'	33	1978	July	15	1800	1 1	32 bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.
a 20 samples were taken around the site of Tingmiark K-91 at various depths.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
78-0002	2 SE	* 70° 10.6'	130° 58'	31	1978	July	17	1300	1 5	30 bottom
	2 SW	* 70° 10.6'	130° 58'	34	1978	July	16	1830	2 5	29 bottom
	2 NW	* 70° 10.6'	130° 58'	31	1978	July	17	1545	1 5	30 bottom
	3 NE	* 70° 10.6'	130° 58'	33	1978	July	15	2230	2 5	24 bottom
	3 SE	* 70° 10.6'	130° 58'	33	1978	July	17	1030	3 5	28 bottom
	3 SW	* 70° 10.6'	130° 58'	-	1978	July	17	1030	3 5	29 bottom
	3 NW	* 70° 10.6'	130° 58'	30	1978	July	17	1945	3 4	24 bottom
	4 NE	* 70° 10.6'	130° 58'	30	1978	July	15	0200	1 5	27 bottom
	4 SE	* 70° 10.6'	130° 58'	27	1978	July	17	0730	1 5	24 bottom
	4 SW	* 70° 10.6'	130° 58'	27	1978	July	16	1230	2 5	26 bottom
	4 NW	* 70° 10.6'	130° 58'	29	1978	July	17	2140	1 5	22 bottom
	5 NE	* 70° 10.6'	130° 58'	27	1978	July	16	2200	3 5	24 bottom
	5 SE	* 70° 10.6'	130° 58'	27	1978	July	16	0710	3 5	26 bottom
	5 SW	* 70° 10.6'	130° 58'	27	1978	July	16	1030	3 5	25 bottom
	5 NW	* 70° 10.6'	130° 58'	27	1978	July	17	2330	4 3	27 bottom
	6 NE	* 70° 10'	130° 58'	28	1978	July	17	0100	1 5	26 bottom
	6 SW	* 70° 10'	130° 58'	27	1978	July	16	0700	2 5	25 bottom
	7 NE	* 70° 10'	130° 58'	28	1978	July	18	-	3 5	26 bottom
	7 SE	* 70° 10'	130° 58'	27	1978	July	18	2100	1 5	23 bottom
	8 NE	* 70° 10'	130° 58'	30	1978	July	18	1140	3 5	26 bottom
	Kopanoar D-14-3	70° 15'	135° 10'	55	1978	July	19	2203	3 5	52 bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	MONTH	DAY	HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
78-0018	i	69° 32.46'	136° 12.12'	-	1978	July	20		5	bottom
	ii	* 69° 32.0'	136° 09.8'	-	1978	July	20		3	18
									5	bottom
	iii	* 69° 31.7'	136° 10.8'	-	1978	July	20		3	18
									5	bottom
	iv	* 69° 32.46'	136° 14.7'	-	1978	July	20		3	18
									5	bottom
78-0019	1	70° 34.07'	130° 51.20'	32	1978	July	29		12	31
									10	bottom
	2	70° 34.07'	130° 51.20'	32	1978	July	29		12	32
	3	70° 34.07'	130° 51.20'	31	1978	July	30		9	30
									10	bottom
	4	70° 34.07'	131° 51.20'	-	1978	July	-		2	-
	5	70° 34.07'	131° 51.20'	-	1978	July	-		2	-
79-0005	1	* 70° 07.1'	125° 02.3'		1979	May			3	12
									3	bottom
	2	* 70° 06.9'	125° 02.9'		1979	May			3	12
									2	bottom
	3	* 70° 07.5'	125° 04.9'		1979	May			2	11
									2	bottom
	4	* 70° 07.8'	125° 05'		1979	May			1	7
									2	bottom
	5	* 70° 05'	125° 00'		1979	May			3	12
									2	bottom
	6	* 70° 06.6'	124° 59'		1979	May			3	39
									2	bottom
	7	* 70° 07.1'	124° 55'		1979	May			3	31
	7-1	* 70° 07.1'	124° 55'		1979	May			2	bottom
	7-2	* 70° 07.1'	124° 55'		1979	May			2	bottom
	8	* 70° 11'	124° 52'		1979	May			3	20
79-0006	I 1	* 69° 57.8'	131° 11.4'	a 6	1979	July	13/14		1	bottom
	I 2	* 69° 57.9'	131° 09.8'	5	1979	July	13/14		1	bottom
	I 3	* 69° 57.6'	131° 10.0'	5	1979	July	13/14		1	bottom
	I 4	* 69° 57.4'	131° 11.2'	6	1979	July	13/14		1	bottom
	I 5	* 69° 57.4'	131° 12.2'	5	1979	July	13/14		1	bottom
	I 6	* 69° 57.8'	131° 12.8'	5	1979	July	13/14		1	bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.
a Depths are estimated from hydrographic chart.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
79-0006	I 7	* 69° 58.1'	131° 12.5'	5	1979	July	13/14		1	bottom
	I 8	* 69° 58.3'	131° 12.9'	5	1979	July	13/14		1	bottom
	I 9	* 69° 58.3'	131° 10.5'	6	1979	July	13/14		1	bottom
	I 10	* 69° 57.9'	131° 08.5'	5	1979	July	13/14		1	bottom
	I 11	* 69° 57.4'	131° 08.8'	5	1979	July	13/14		1	bottom
	I 12	* 69° 56.9'	131° 10.7'	5	1979	July	13/14		1	bottom
	I 13	* 69° 57.1'	131° 12.9'	5	1979	July	13/14		1	bottom
	I 14	* 69° 57.75'	131° 14.4'	5	1979	July	13/14		1	bottom
	I 15	* 69° 58.3'	131° 14'	5	1979	July	13/14		1	bottom
	I 16	* 69° 58.75'	131° 12.3'	5	1979	July	13/14		1	bottom
	I 17	* 69° 58.7'	131° 09.7'	6	1979	July	13/14		1	bottom
	I 18	* 69° 59.2'	131° 08.8'	6	1979	July	13/14		1	bottom
	I 19	* 69° 59.6'	131° 08.3'	7	1979	July	13/14		1	bottom
	I 20	* 70° 00.1'	131° 08'	8	1979	July	13/14		1	bottom
	I 21	* 70° 00.5'	131° 07.6'	9	1979	July	13/14		1	bottom
	I 22	* 70° 00.9'	131° 07.3'	10	1979	July	13/14		1	bottom
	I 23	* 70° 01.75'	131° 07'	10	1979	July	13/14		1	bottom
	I 24	* 70° 02.75'	131° 06.4'	10	1979	July	13/14		1	bottom
	II 1	* 69° 27.9'	132° 59'	a 2	1979	July	13/14		1	bottom
	II 2	* 69° 27.9'	132° 59'	2	1979	July	13/14		1	bottom
	II 3	* 69° 28.1'	132° 59'	2	1979	July	13/14		1	bottom
	II 4	* 69° 28.4'	133° 00'	2	1979	July	13/14		1	bottom
	II 5	* 69° 28.9'	133° 02'	2	1979	July	13/14		1	bottom
	II 6	* 69° 29.5'	133° 04'	3	1979	July	13/14		1	bottom
	II 7	* 69° 29.9'	133° 05'	3	1979	July	13/14		1	bottom
	II 8	* 69° 30.3'	133° 06'	3	1979	July	13/14		1	bottom
	II 9	* 69° 30.8'	133° 07'	3	1979	July	13/14		1	bottom
	II 10	* 69° 31.2'	133° 08'	3	1979	July	13/14		1	bottom
	II 11	* 69° 31.8'	133° 11'	4	1979	July	13/14		1	bottom
	II 12	* 69° 32.7'	133° 12'	4	1979	July	13/14		1	bottom
	II 13	* 69° 34.7'	133° 13'	4	1979	July	13/14		1	bottom
	II 14	* 69° 35.6'	133° 13.5'	4	1979	July	13/14		1	bottom
	II 15	* 69° 36.8'	133° 14'	5	1979	July	13/14		1	bottom
	II 16	* 69° 37.7'	133° 15'	5	1979	July	13/14		1	bottom
	II 17	* 69° 38.5'	133° 16'	5	1979	July	13/14		1	bottom
	II 18	* 69° 39.3'	133° 17'	5	1979	July	13/14		1	bottom
	II 19	* 69° 40.3'	133° 17.5'	6	1979	July	13/14		1	bottom
	II 20	* 69° 41.3'	133° 18'	6	1979	July	13/14		1	bottom
	II 21	* 69° 42.3'	133° 19'	6	1979	July	13/14		1	bottom
	II 22	-	-	6	1979	July	13/14		1	bottom
	II 24	-	-	7	1979	July	13/14		1	bottom
79-0007	1	70° 46.23'	129° 21.38'	25	1979	July	22		5	bottom
	2	* 70° 46.7'	129° 19.1'	-	1979	July	22		3	22
									5	bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

a Depths are estimated from hydrographic chart

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
79-0007	3	* 70° 45.4'	129° 20.1	-	1979	July	22		3	22
									5	bottom
	4	* 70° 46.23'	129° 24.0'	-	1979	July	22		2	22
									5	bottom
79-0008	150 mNE	70° 10.58'	132° 58.76'	-	1979	Sept.	1-3		1	bottom
	300 mNE	70° 10.68'	132° 58.58	-	1979	Sept.	1-3		1	bottom
	600 mNE	70° 10.73'	132° 58.23'	-	1979	Sept.	1-3		1	bottom
	900 mNE	70° 10.93'	132° 57.90'	-	1979	Sept.	1-3		1	bottom
	1500 mNE	70° 11.14'	132° 57.21'	-	1979	Sept.	1-3		1	bottom
	U 1	70° 09.16'	132° 44.60'	-	1979	Sept.	3-4		1	bottom
	U 2	70° 09.10'	132° 44.09'	-	1979	Sept.	3-4		1	bottom
	U 3	70° 09.10'	132° 43.99'	-	1979	Sept.	3-4		1	bottom
	U 4	70° 09.09'	132° 43.84'	-	1979	Sept.	3-4		1	bottom
	U 5	70° 09.05'	132° 43.40'	-	1979	Sept.	3-4		1	bottom
	Kenalooak	* 70° 44'	133° 58'	-	1979	Aug.	31		1	bottom
79-0009	Nerlerk M98	70° 30'	133° 30'		1979	Sept.	9		8	10
79-0010	A	* 70° 02.9'	131° 06.8'		1979	Sept.	25-27		3	8
	B	* 70° 00.3'	131° 09.1'		1979	Sept.	25-27		3	7
	C	* 69° 57.8'	131° 11.5'		1979	Sept.	25-27		3	5
	D	* 69° 55.8'	131° 10.5'		1979	Sept.	25-27		4	3
80-0003	A	* 70° 02.67'	131° 05.60'		1980	July	4	-	3	9
	A	* 70° 02.67'	131° 05.60'		1980	Aug.	10	-	3	9
	A	* 70° 02.67'	131° 05.60'		1980	Sept.	10	-	3	10
	B	* 70° 00.33'	131° 08.00'		1980	July	4	-	3	9
	B	* 70° 00.33'	131° 08.00'		1980	Aug.	10	-	3	9
	B	* 70° 00.33'	131° 08.00'		1980	Sept.	10	-	3	10
	B	* 70° 00.33'	131° 08.00'		1980	Sept.	26	-	3	9
	C	* 69° 57.92'	131° 10.60'		1980	July	4	-	3	9
	C	* 69° 57.92'	131° 10.60'		1980	Aug.	10	-	3	9
	C	* 69° 57.92'	131° 10.60		1980	Sept.	10	-	6	10
	C	* 69° 57.92'	131° 10.60'		1980	Sept.	26	-	3	9
	D	* 69° 55.73'	131° 10.25'		1980	July	4	-	2	3
	D	* 69° 55.73'	131° 10.25'		1980	Aug.	10	-	2	3
	D	* 69° 55.73'	131° 10.25'		1980	Sept.	10	-	3	3
	D	* 69° 55.73'	131° 10.25'		1980	Sept.	26	-	2	3
	E	* 69° 56.83'	131° 14.00'		1980	July	04	-	2	3

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED YEAR	TIME SAMPLED MONTH	TIME SAMPLED DAY	TIME SAMPLED HOUR GMT	NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
80-0003	E	* 69° 56.83'	131° 14.00'		1980	Aug.	10	-	3	10
	E	* 69° 56.83'	131° 14.00'		1980	Sept.	10	-	7	15
	E	* 69° 56.83'	131° 14.00'		1980	Sept.	26	-	4	10
80-0004A	1	69° 31.4'	133° 08.1'	5	1980	July	10	2000	2 1	3 bottom
	2	* 69° 27.75'	132° 59.6'	9	1980	July	11	0400	2 1	5 bottom
	3	* 69° 26.81'	133° 01.1'	10	1980	July	11	0015	4 1	10 bottom
	4	* 69° 26.79'	132° 58.7'	12	1980	July	10	2310	4 1	10 bottom
	4.5	* 69° 26.77'	132° 57.95'	7	1980	July	10	2330	3	5
	5	* 69° 26.16'	132° 58.30'	21	1980	July	10	1900	5 1	20 bottom
	6	* 69° 25.25'	132° 58.1'	25	1980	July	10	1930	5 1	20 bottom
	7	* 69° 24.40'	132° 59.08'	10	1980	July	10	1850	4 1	9 bottom
	8	69° 31.1'	133° 00.6'		1980	July	10-12	-	1	bottom
	9	* 69° 27.77'	133° 00.36'		1980	July	10-12	-	1	bottom
	10	* 69° 27.50'	132° 59.10'	5	1980	July	10-12	-	1	bottom
	11	* 69° 27.25'	132° 58.93'	2	1980	July	10-12	-	1	bottom
	12	* 69° 27.00'	132° 58.65'	5	1980	July	10-12	-	1	bottom
	13	* 69° 26.96'	132° 58.80'	4	1980	July	10-12	-	1	bottom
	14	* 69° 26.75'	132° 58.5'	5	1980	July	10-12	-	1	bottom
	15	* 69° 26.75'	132° 59.0'	8	1980	July	10-12	-	1	bottom
80-0004B	1	69° 31.4'	133° 08.1'	5	1980	Aug.	15	1730	2	3
	2	* 69° 27.75'	132° 59.6'	9	1980	Aug.	15	0517	3	5
	2.75	* 69° 27.15'	132° 58.7'	12	1980	Aug.	15	0441	4	10
	3	* 69° 26.81'	133° 01.1'	10	1980	Aug.	15	0358	4	10
	3.5	* 69° 26.78'	132° 59.7'	11	1980	Aug.	15	0322	4	10
	4	* 69° 26.79'	132° 58.7'	12	1980	Aug.	15	0007	4	10
	4.5	* 69° 26.77'	132° 57.95'	7	1980	Aug.			3	5
	5	* 69° 26.16'	132° 58.30'	21	1980	Aug.	14	0219	4	10
	5.5	* 69° 25.75'	132° 58.35'	22	1980	Aug.	14	0305	6	22
	6	* 69° 25.25'	132° 58.1'	25	1980	Aug.	14	0400	6	22
	6.5	* 69° 24.88'	132° 58.5'	15	1980	Aug.	13	0400	5	14
	7	* 69° 24.40'	132° 59.08'	10	1980	Aug.	13	0045	4	9
80-0004C	1	69° 31.4'	133° 08.1'	5	1980	Sept.	6	1530		
	2	* 69° 27.75'	132° 59.6'	9	1980	Sept.	6	1700	2	bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
80-0004C	2.75	* 69° 27.15'	132° 58.7'	12	1980	Sept.	6	0600	3 1	5 bottom
	3	* 69° 26.81'	133° 01.1'	10	1980	Sept.	6	1740	4 1	10 bottom
	3.5	* 69° 26.78'	132° 59.7'	11	1980	Sept.	6	1820	4 1	10 bottom
	4	* 69° 26.79'	132° 58.7'	12	1980	Sept.	6	1953	4 1	10 bottom
	4.5	* 69° 26.77'	132° 57.95'	7	1980	Sept.	5	1925	4 1	10 bottom
	5	* 69° 26.16'	132° 58.30'	21	1980	Sept.	5	1930	3 1	5 bottom
	5.5	* 69° 25.75'	132° 58.35'	22	1980	Sept.	6	0400	5 1	20 bottom
	6	* 69° 25.25'	132° 58.1'	25	1980	Sept.	6	0100	6 1	22 bottom
	6.5	* 69° 24.88'	132° 58.5'	15	1980	Sept.	5	2330	6 1	22 bottom
	7	* 69° 24.4'	132° 59.08'	10	1980	Sept.	5	2235	5 1	14 bottom
	8	69° 31.1'	133° 0.6'	4	1980	Sept.	4-7	-	4 1	9 bottom
	9	* 69° 27.78'	133° 0.35'	2	1980	Sept.	4-7	-	1	bottom
	10	* 69° 27.5'	132° 59.1'	5	1980	Sept.	4-7	-	1	bottom
	11	* 69° 27.25'	132° 58.93'	2	1980	Sept.	4-7	-	1	bottom
	12	* 69° 27.0'	132° 58.65'	5	1980	Sept.	4-7	-	1	bottom
	13	* 69° 26.96'	132° 58.8'	4	1980	Sept.	4-7	-	1	bottom
	14	* 69° 26.75'	132° 58.5'	5	1980	Sept.	4-7	-	1	bottom
	15	* 69° 26.75'	132° 59.0'	8	1980	Sept.	4-7	-	1	bottom
80-0004D	1	69° 31.4'	133° 08.1'	5	1980	Sept.	25	2200	1	0
	2	* 69° 27.75'	132° 59.6'	9	1980	Sept.	25	2400	3	5
	2.75	* 69° 27.15'	132° 58.7'	12	1980	Sept.	26	0100	4	10
	3	* 69° 26.81'	133° 01.1'	10	1980	Sept.	26	0145	4	10
	3.5	* 69° 26.78'	132° 59.7'	11	1980	Sept.	26	0300	4	10
	4	* 69° 26.79'	132° 58.7'	12	1980	Sept.	26	0410	4	10
	4.5	* 69° 26.77'	132° 57.95'	7	1980	Sept.	26	0540	3	5
	5	* 69° 26.16'	132° 58.3'	21	1980	Sept.	25	0530	5	20
	5.5	* 69° 25.75'	132° 58.32'	22	1980	Sept.	25	0450	6	22
	6	* 69° 25.25'	132° 58.1'	25	1980	Sept.	25	0415	6	22
	6.5	* 69° 24.88'	132° 58.5'	15	1980	Sept.	25	0134	5	14
	7	* 69° 24.40'	132° 59.08'	10	1980	Sept.	25	0040	4	9

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
80-0005	DS-1	* 69° 56.8'	131° 15.0'		1980	July	24	2330	1	bottom
	DS-2	* 69° 56.8'	131° 15.0'		1980	July	31	2030	1	bottom
	DS-3	* 69° 56.8'	131° 15.0'		1980	Aug.	20	2200	1	bottom
	DS-4	* 69° 56.8'	131° 15.0'		1980	July	28	0215	1	bottom
	DS-5	* 69° 56.8'	131° 15.0'		1980	Aug.	5	0000	1	bottom
	DS-6	* 69° 56.8'	131° 15.0'		1980	Aug.	6	0700	1	bottom
	DS-7	* 69° 56.8'	131° 15.0'		1980	-	-	-	1	bottom
	DS-8	* 69° 56.8'	131° 15.0'		1980	Aug.	8	0500	1	bottom
	DS-9	* 69° 56.8'	131° 15.0'		1980	July	19	-	1	bottom
	DS-10	* 69° 56.8'	131° 15.0'		1980	July	27	0500	1	bottom
	DS-11	* 69° 56.8'	131° 15.0'		1980	July	22	1800	1	bottom
	DS-12	* 69° 56.8'	131° 15.0'		1980	July	27	1730	1	bottom
	DS-13	* 69° 56.8'	131° 15.0'		1980	July	21	2230	1	bottom
80-0006	Issungnak 0-61	70° 00.8'	134° 19.5'							
	0° - 100	* 70° 00.9'	134° 19.5'	10-15	1980	Aug.	27		1	bottom
	0° - 300	* 70° 01.2'	134° 19.5'	16	1980	Aug.	27		1	bottom
	0° - 900	* 70° 02.1'	134° 19.5'	18	1980	Aug.	28		1	bottom
	0° - 1800	* 70° 03.4'	134° 19.5'	18	1980	Aug.	28		1	bottom
	0° - 3000	* 70° 05.14'	134° 19.5'	18	1980	Aug.	31		1	bottom
	90° - 100	* 70° 00.8'	134° 19.1'	5	1980	Aug.	31		1	bottom
	90° - 300	* 70° 00.8'	134° 18.2'	18	1980	Sept.	3		1	bottom
	90° - 900	* 70° 00.8'	134° 15.7'	20	1980	Sept.	3		1	bottom
	90° - 1800	* 70° 00.8'	134° 12.0'	18	1980	Sept.	3		1	bottom
	90° - 3000	* 70° 00.8'	134° 06.9'	18	1980	Sept.	3		1	bottom
	135° - 100	* 70° 00.7'	134° 19.2'	5-10	1980	Sept.	3		1	bottom
	135° - 300	* 70° 00.5'	134° 18.6'	15	1980	Sept.	3		1	bottom
	135° - 900	* 69° 59.9'	134° 16.8'	18	1980	Sept.	3		1	bottom
	135° - 1800	* 69° 58.9'	134° 14.2'	18	1980	Sept.	3		1	bottom
	135° - 3000	* 69° 57.7'	134° 10.6'	18	1980	Sept.	3		1	bottom
	180° - 100	* 70° 00.7'	134° 19.5'	5-10	1980	Aug.	31		1	bottom
	180° - 300	* 70° 00.4'	134° 19.5'	15	1980	Aug.	27		1	bottom
	180° - 900	* 69° 59.5'	134° 19.5'	18	1980	Aug.	27		1	bottom
	180° - 1800	* 69° 58.2'	134° 19.5'	18	1980	Aug.	27, 29		1	bottom
	180° - 3000	* 69° 56.5'	134° 19.5'	18	1980	Aug.	31		1	bottom
	225° - 100	* 70° 00.7'	134° 19.8'	5-10	1980	Sept.	3		1	bottom
	225° - 300	* 70° 00.5'	134° 20.4'	15	1980	Sept.	3		1	bottom
	225° - 900	* 69° 59.9'	134° 22.2'	18	1980	Sept.	3		1	bottom
	225° - 1800	* 69° 58.9'	134° 24.8'	18	1980	Sept.	3		1	bottom
	225° - 3000	* 69° 57.7'	134° 28.4'	18	1980	Sept.	3		1	bottom
	270° - 100	* 70° 00.8'	134° 19.9'	5-10	1980	Sept.	1		1	bottom
	270° - 300	* 70° 00.8'	134° 20.8'	15	1980	Sept.	1		1	bottom
	270° - 900	* 70° 00.8'	134° 23.3'	18	1980	Sept.	1		1	bottom
	270° - 1800	* 70° 00.8'	134° 27.0'	18	1980	Sept.	1		1	bottom
	270° - 3000	* 70° 00.8'	134° 32.1'	18	1980	Sept.	1		1	bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
80-0016	McKinley Bay	* 79° 01.6'	131° 13.0'	14	1980	Apr.	9		7	8.0
81-0003A	1	* 70° 00.9'	134° 19.3'	18	1981	Mar.	6-9		4.	1 m from bottom
	2	* 70° 01.1'	134° 18.7'	18	1981	Mar.	6-9		5	1 m from bottom
	3	* 70° 01.0'	134° 19.5'	18	1981	Mar.	6-9		4	1 m from bottom
81-0003B	1	* 70° 00.9'	134° 19.3'	18	1981	May	13-16		4	1 m from bottom
	2	* 70° 01.1'	134° 18.7'	18	1981	May	13-16		5	1 m from bottom
	3	* 70° 01.0'	134° 19.5'	18	1981	May	13-16		4	1 m from bottom
81-0003C	1	* 70° 00.9'	134° 19.3'	18	1981	July	23-26		4	1 m from bottom
	2	* 70° 01.2'	134° 18.8'	18	1981	July	23-26		5	1 m from bottom
	3	* 70° 01.0'	134° 19.5'	18	1981	July	23-26		4	1 m from bottom
81-0004	ITYOK M-17	69° 57'	134° 05'	8	1981				2	10
	West Atkinson L-17	69° 46'	132° 04'		1981				2	10
	Isserk A-49	69° 58'	134° 20'	15	1981				2	10
	Kadluk H-08	69° 47'	136° 00'	14	1981				2	10
	Igalak	69° 45'	135° 13'		1981				2	10
	Minuk	69° 42'	136° 27'		1981				2	10
	Nayak E-35	69° 54'	133° 25'	15	1981				2	10
	Omat	69° 44'	135° 29'		1981				2	10
	Issigak	69° 47'	135° 58'		1981				2	10
81-0005	Benthic-2	* 70° 01.5'	124° 53.4'	-	1981	July	15		1	bottom
	Benthic-3	* 70° 02.'	124° 53.0'	-	1981	July	14		1	bottom
	Beach-3	* 70° 02.01'	124° 52.80'	-	1981	July	16		1	0
	Beach-5	* 70° 01.96'	124° 52.84'	-	1981	July	16		1	0

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
81-0010	West Atkinson L-17	69° 46'	132° 04'		1981				1	bottom
	Alerk P 23	69° 53'	132° 50.4'		1981				1	bottom
81-0011	1	* 70° 02.2'	131° 05.0'		1981	Aug.	12-13	1	bottom	
	2	* 70° 01.0'	131° 05.0'		1981	Aug.	12-13	1	bottom	
	3	a 69° 56.8'	131° 15.0'		1981	Aug.	12-13	1	bottom	
	4	a 69° 56.8'	131° 15.0'		1981	Aug.	12-13	1	bottom	
	5	a 69° 56.8'	131° 15.0'		1981	Aug.	12-13	1	bottom	
81-0012	1	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	2	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	3	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	4	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	5	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	6	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	7	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	8	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	9	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	10	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	11	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	12	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	13	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	14	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	15	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	16	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	17	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	18	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	19	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	20	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	21	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	22	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	23	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	24	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	25	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	26	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	27	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	28	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom
	29	b 69° 56.8'	131° 15.0'		1981	Sept.	29 - Oct. 2		1	bottom

* Approximate latitude and longitude obtained by measuring plotted station positions given in report.
a All stations are located within 650 m of (69° 56.8' N, 131° 15.0' W).
b All stations are located within 725 m of (69° 56.8' N, 131° 15.0' W).

DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
81-0013	1	* 69° 26.85'	132° 59.60'		1981	June	22	0515	3	10
	1	* 69° 26.85'	132° 59.60'		1981	July	4	0300	3	10
	1	* 69° 26.85'	132° 59.60'		1981	July	4	1045	2	8
	1	* 69° 26.85'	132° 59.60'		1981	July	7	0600	3	9
	1	* 69° 26.85'	132° 59.60'		1981	July	7	1815	3	10
	1	* 69° 26.85'	132° 59.60'		1981	June	21	2100	2	10
	1	* 69° 26.85'	132° 59.60'		1981	June	21	2345	2	10
	1	* 69° 26.85'	132° 59.60'		1981	June	21	0200	3	10
	1	* 69° 26.85'	132° 59.60'		1981	June	21	0500	3	10
	1	* 69° 26.85'	132° 59.60'		1981	June	22	0815	3	10
	1	* 69° 26.85'	132° 59.60'		1981	July	7	1815	3	10
	1	* 69° 26.85'	132° 59.60'		1981	July	7	2215	3	9
	1	* 69° 26.85'	132° 59.60'		1981	July	8	0000	3	10
	1	* 69° 26.85'	132° 59.60'		1981	July	8	0145	3	10
	2	* 69° 27.14'	132° 59.90'		1981	June	21	0400	3	10
	2	* 69° 27.14'	132° 59.90'		1981	July	3	0530	2	8
	2	* 69° 27.14'	132° 59.90'		1981	July	4	1230	2	8
	2	* 69° 27.14'	132° 59.90'		1981	July	6	2530	3	10
	3	* 69° 26.78'	133° 00.52'		1981	June	22	0645	2	7
	3	* 69° 26.78'	133° 00.52'		1981	July	3	0030	2	5
	3	* 69° 26.78'	133° 00.52'		1981	July	4	0745	2	5
	3	* 69° 26.78'	133° 00.52'		1981	July	7	0345	2	5
	3a	* 69° 26.92'	133° 00.64'		1981	July	4	0100	2	3
	3a	* 69° 26.92'	133° 00.64'		1981	July	4	0815	1	1
	3a	* 69° 26.92'	133° 00.64'		1981	July	7	0415	3	12
	3a	* 69° 26.92'	133° 00.64'		1981	July	7	1745	2	11
	3a	* 69° 26.92'	133° 00.64'		1981	July	7	1545	3	11
	3a	* 69° 26.92'	133° 00.64'		1981	July	7	1745	2	11
	3a	* 69° 26.92'	133° 00.64'		1981	July	7	2145	3	12
	3a	* 69° 26.92'	133° 00.64'		1981	July	7	2330	2	12
	3a	* 69° 26.92'	133° 00.64'		1981	July	8	0115	3	12
	4	* 69° 26.80'	133° 01.10'		1981	July	3	2315	3	11
	4	* 69° 26.80'	133° 01.10'		1981	July	4	0645	3	10
	4	* 69° 26.80'	133° 01.10'		1981	July	7	0315	3	10
	4	* 69° 26.80'	133° 01.10'		1981	July	7	1445	3	11
	4	* 69° 26.80'	133° 01.10'		1981	July	7	1715	2	10
	4a	* 69° 26.85'	133° 01.42'		1981	July	7	0230	4	13
	4b	* 69° 26.96'	133° 01.82'		1981	July	7	0215	2	6
	5	* 69° 27.15'	133° 01.65'		1981	June	22	0430	3	10
	5	* 69° 27.15'	133° 01.65'		1981	July	4	1315	2	7
	5	* 69° 27.15'	133° 01.65'		1981	July	7	0145	3	11
	6	* 69° 26.68'	133° 00.43'		1981	June	22	0715	1	1
	6	* 69° 26.68'	133° 00.43'		1981	July	4	0230	1	1
	6	* 69° 26.68'	133° 00.43'		1981	July	4	0845	1	1
	6	* 69° 26.68'	133° 00.43'		1981	July	7	0330	1	0
	6	* 69° 26.68'	133° 00.43'		1981	July	7	1730	1	1

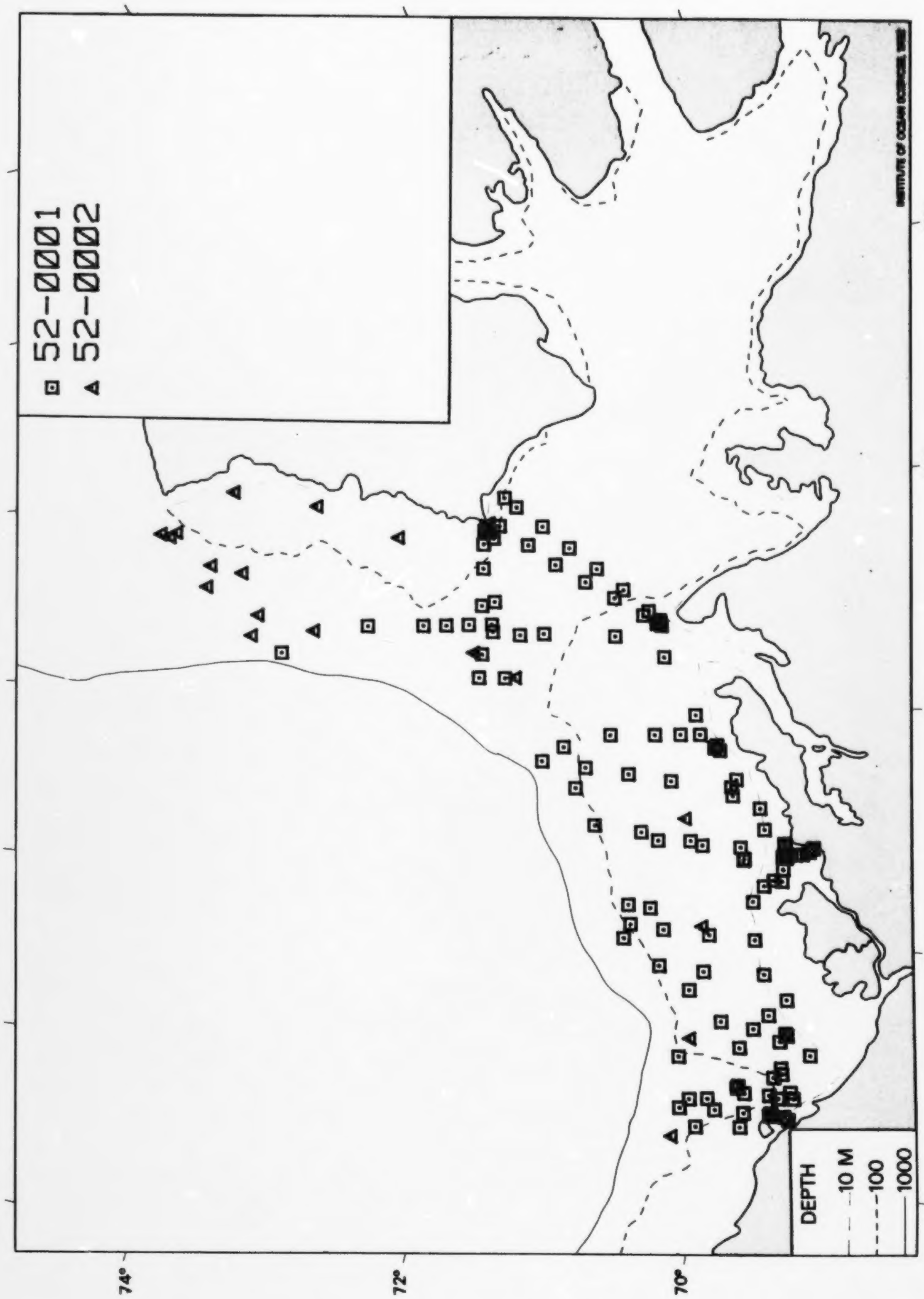
* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

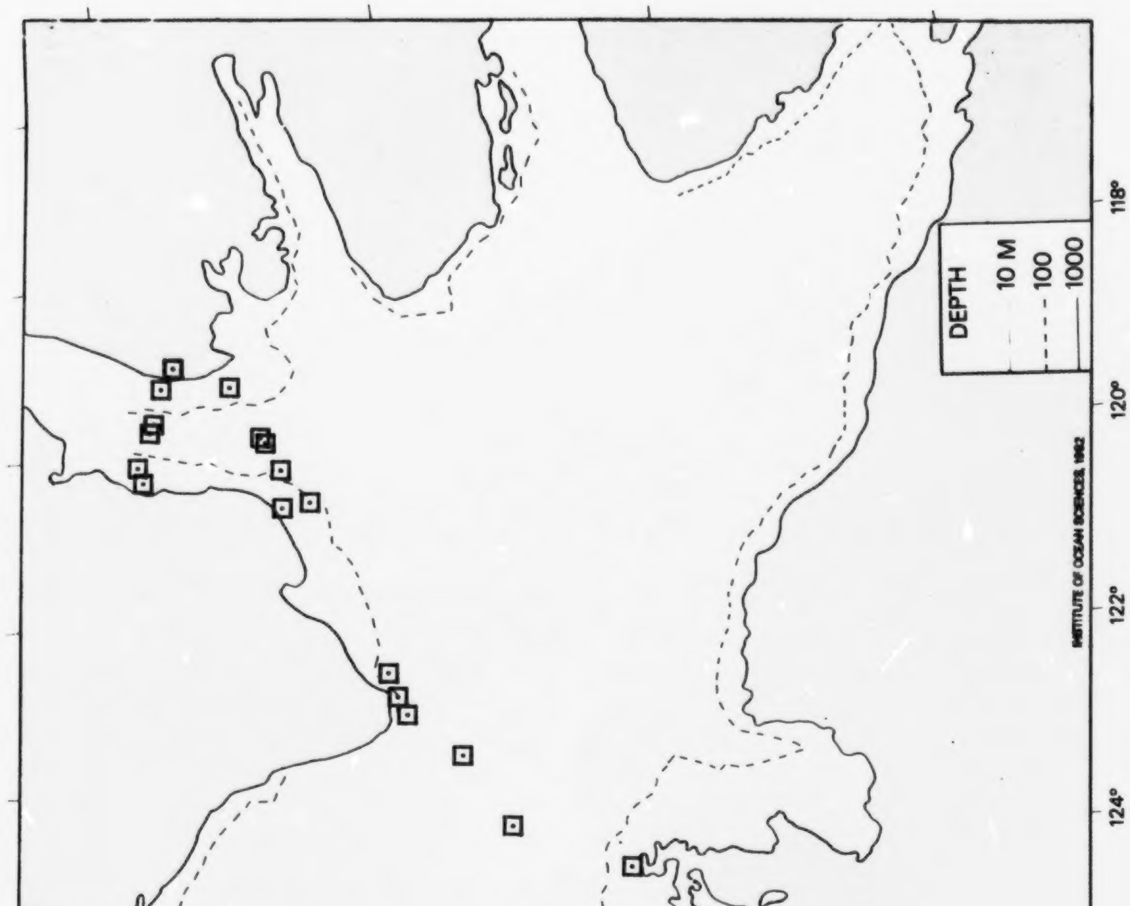
DATA SET NUMBER	STATION NUMBER	LATITUDE	LONGITUDE	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
		°N	°W		YEAR	MONTH	DAY	HOUR GMT		
81-0013	6	* 69° 26.68'	133° 00.43'		1981	July	7	1515	1	1
	6	* 69° 26.68'	133° 00.43'		1981	July	7	1730	1	1
	6	* 69° 26.68'	133° 00.43'		1981	July	7	2215	1	1
	6	* 69° 26.68'	133° 00.43'		1981	July	7	2300	1	1
	6	* 69° 26.68'	133° 00.43'		1981	July	8	0045	1	1
	6a	* 69° 26.82'	133° 00.05'		1981	July	4	0145	2	6
	6a	* 69° 26.82'	133° 00.05'		1981	July	4	0900	2	6
	6a	* 69° 26.82'	133° 00.05'		1981	July	7	0445	2	6
	6b	* 69° 26.96'	133° 00.00'		1981	July	7	0500	1	0
	7	* 69° 26.92'	132° 58.90'		1981	June	22	0600	3	12
	7	* 69° 26.92'	132° 58.90'		1981	July	4	0445	3	10
	7	* 69° 26.92'	132° 58.90'		1981	July	4	1130	3	10
	7	* 69° 26.92'	132° 58.90'		1981	July	7	0645	4	10
	7	* 69° 26.92'	132° 58.90'		1981	July	7	1845	3	10.5
	7	* 69° 26.92'	132° 58.90'		1981	July	7	1630	3	9
	7	* 69° 26.92'	132° 58.90'		1981	July	7	1845	3	10.5
	7	* 69° 26.92'	132° 58.90'		1981	July	7	2245	3	11
	7	* 69° 26.92'	132° 58.90'		1981	July	8	0030	3	11
	7	* 69° 26.92'	132° 58.90'		1981	July	8	0230	4	13
	8	* 69° 26.62'	132° 59.40'		1981	July	4	0345	2	8
	8	* 69° 26.62'	132° 59.40'		1981	July	7	0630	1	0
81-0014	McKinley Bay	* 70° 01.6'	131° 13.0'		1981	Aug.			1	bottom
81-0015A	1	* 70° 00.90'	134° 19.30'	18	1981	May	16	-	6	1.8
	1	* 70° 00.90'	134° 19.30'	18	1981	May	29	-	3	1.45
	1	* 70° 00.90'	134° 19.30'	18	1981	May	29	-	3	16.5
	1	* 70° 00.90'	134° 19.30'	18	1981	June	16	-	4	1.45
	1	* 70° 00.90'	134° 19.30'	18	1981	June	16	-	3	16.5
	1	* 70° 00.90'	134° 19.30'	18	1981	June	16	0615	3	15
	1	* 70° 00.90'	134° 19.30'	18	1981	June	16	1100	2	15
	1	* 70° 00.90'	134° 19.30'	18	1981	June	16	1500	2	15
	1	* 70° 00.90'	134° 19.30'	18	1981	June	16	2000	2	15
	1	* 70° 00.90'	134° 19.30'	18	1981	July	25	2000	3	18
	1	* 70° 00.90'	134° 19.30'	18	1981	July	26	0200	3	18
	1	* 70° 00.90'	134° 19.30'	18	1981	July	26	1430	3	18
	1	* 70° 00.90'	134° 19.30'	18	1981	Sept.	26	-	3	17
81-0015B	McKinley Bay	* 70° 01.6'	131° 13.0'		1981	May	17		9	1.65
		* 70° 01.6'	131° 13.0'		1981	Apr.	21		5	12
		* 70° 01.6'	131° 13.0'		1981	May	17		5	15
		* 70° 01.6'	131° 13.0'		1981	June	20		8	18

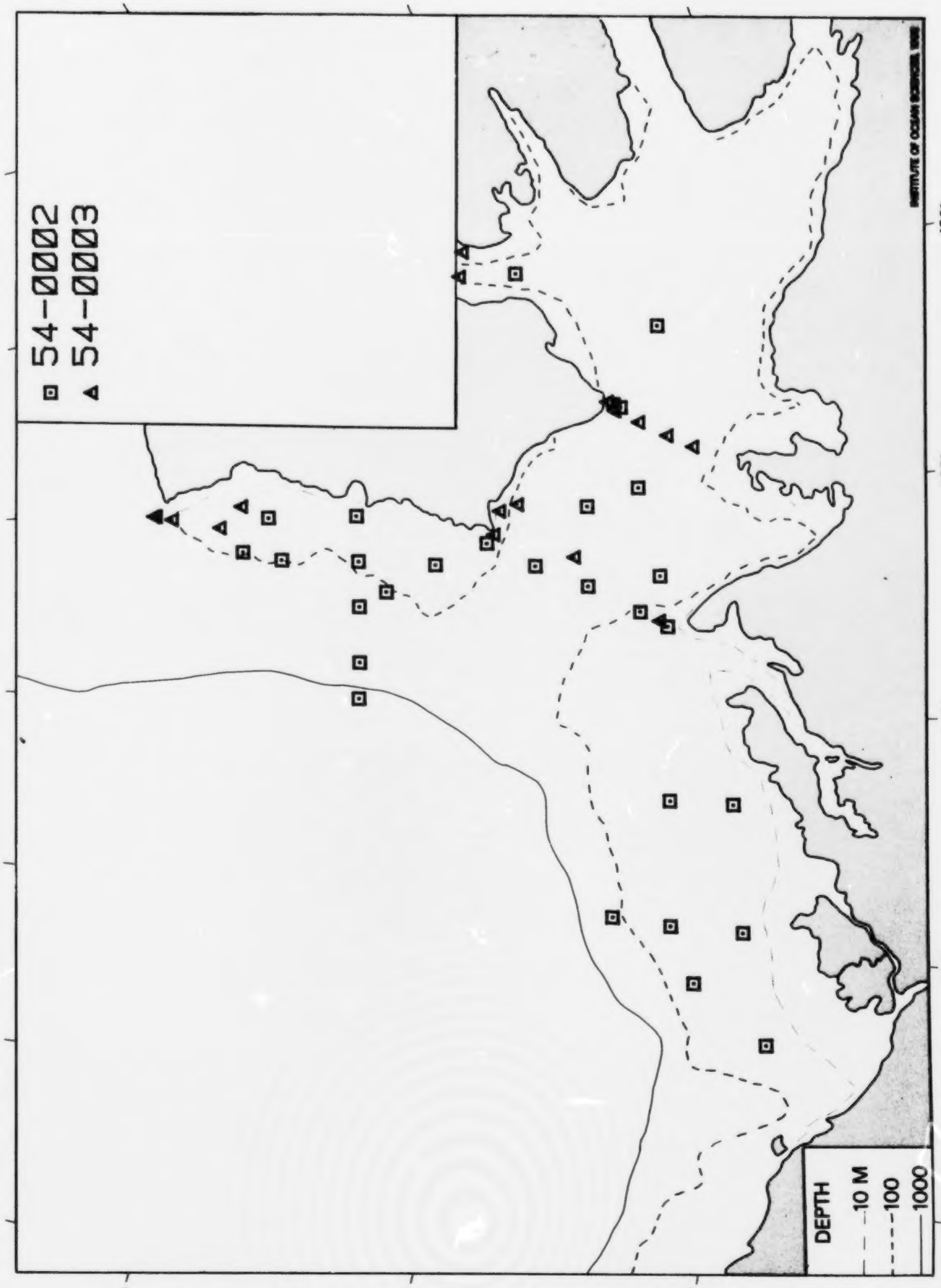
* Approximate latitude and longitude obtained by measuring plotted station positions given in report.

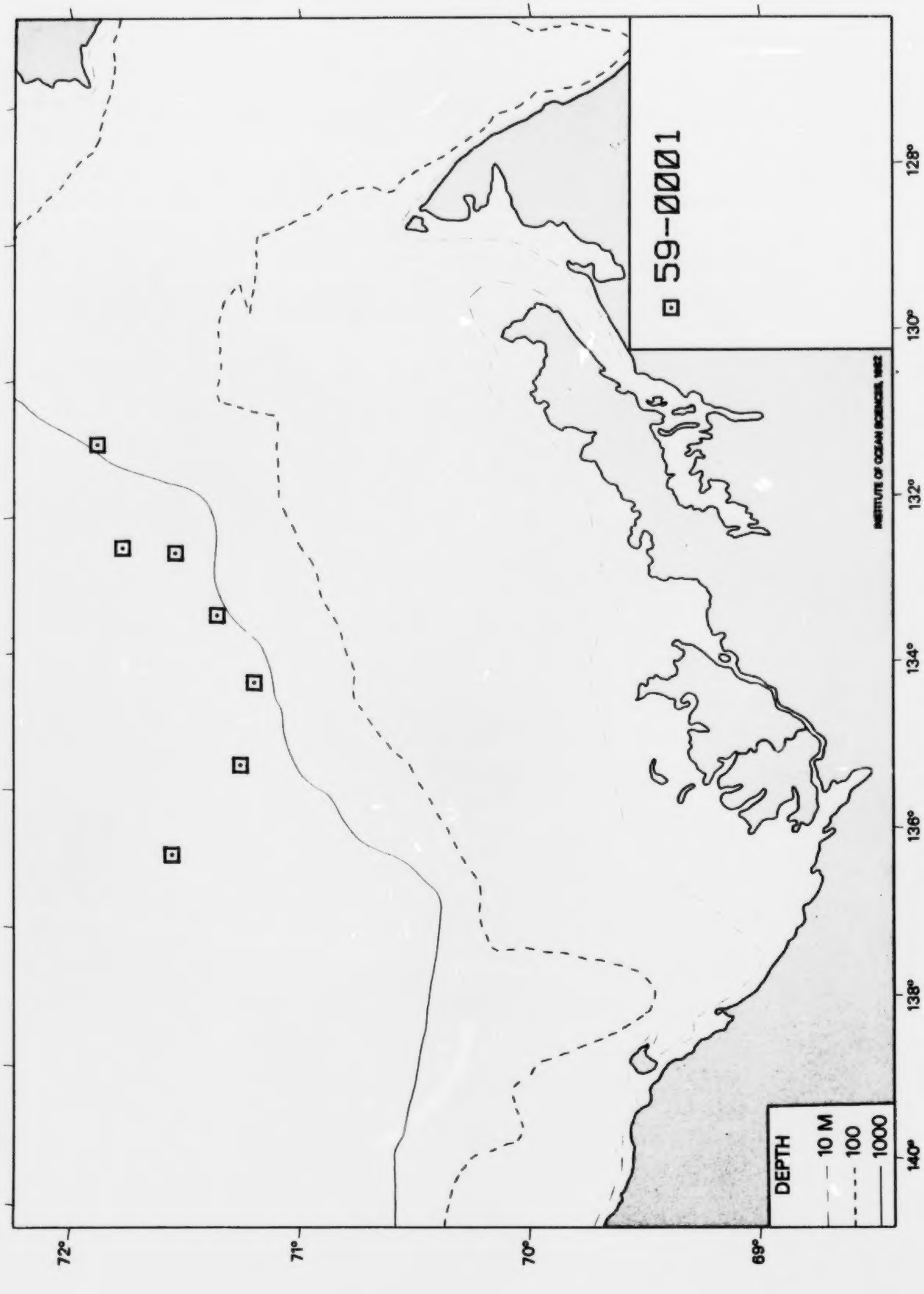
DATA SET NUMBER	STATION NUMBER	LATITUDE °N	LONGITUDE °W	STATION DEPTH (m)	TIME SAMPLED				NUMBER POINTS	MAXIMUM DEPTH SAMPLED (m)
					YEAR	MONTH	DAY	HOUR GMT		
81-0018	TBS-1	69° 44' 06"	135° 58' 36"	8.2	1981	Sept.	11		1	bottom
	TBE-1	69° 45' 48"	135° 51' 12"	10.7	1981	Sept.	11		1	bottom
	TBE-2	69° 42' 48"	135° 48' 00"	8.5	1981	Sept.	11		1	bottom
	TBN-1	69° 46' 18"	135° 55' 30"	10.7	1981	Sept.	11		1	bottom
	TBN-2	69° 47' 48"	135° 58' 12"	13.0	1981	Sept.	11		1	bottom
	TBSC-1	69° 44' 06"	135° 53' 30"	8.0	1981	Sept.	11		1	bottom
	TBSC-2	69° 42' 36"	136° 02' 36"	8.0	1981	Sept.	11		1	bottom
	TN-1	69° 53' 52"	136° 11' 39"	10.0	1981	Sept.	22		1	bottom
	TN-2	69° 54' 07"	136° 11' 40"	20.0	1981	Sept.	22		1	bottom
	TN-3	69° 55' 27"	136° 11' 44"	21.0	1981	Sept.	22		1	bottom
	TE-1	69° 53' 49"	136° 11' 29"	14.0	1981	Sept.	22		1	bottom
	TE-2	69° 53' 49"	136° 10' 47"	18.0	1981	Sept.	22		1	bottom
	TE-3	69° 53' 51"	136° 06' 52"	20.0	1981	Sept.	22		1	bottom
	TS-1	69° 53' 46"	136° 11' 39"	12.0	1981	Sept.	22		1	bottom
	TS-2	69° 53' 31"	136° 11' 38"	18.0	1981	Sept.	22		1	bottom
	TS-3	69° 52' 10"	136° 11' 33"	18.0	1981	Sept.	22		1	bottom
	TW-1	69° 53' 49"	136° 11' 40"	10.0	1981	Sept.	22		1	bottom
	TW-2	69° 53' 49"	136° 12' 25"	18.0	1981	Sept.	22		1	bottom
	TW-3	69° 53' 47"	136° 16' 20"	21.0	1981	Sept.	22		1	bottom

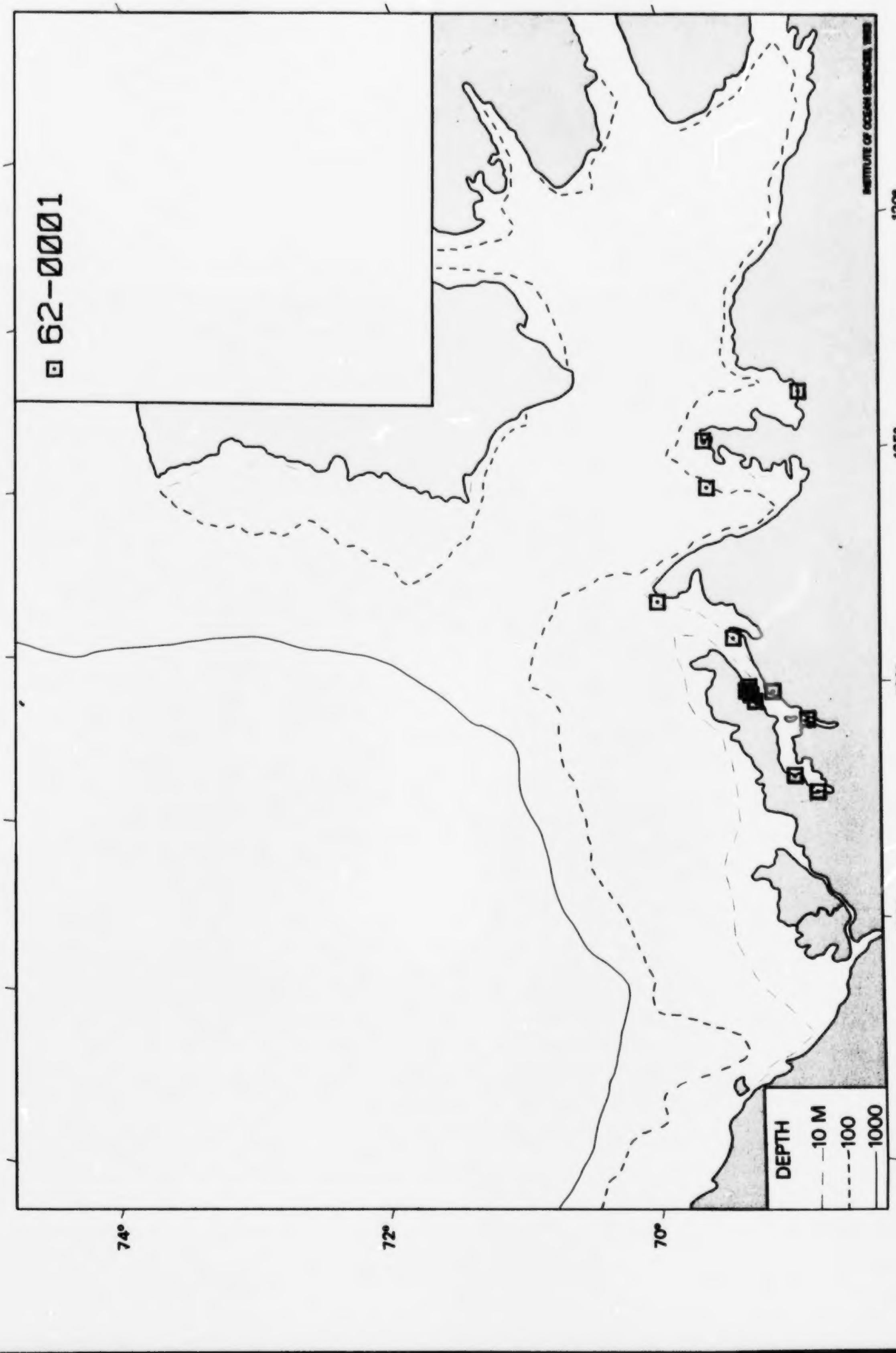
10. MAPS

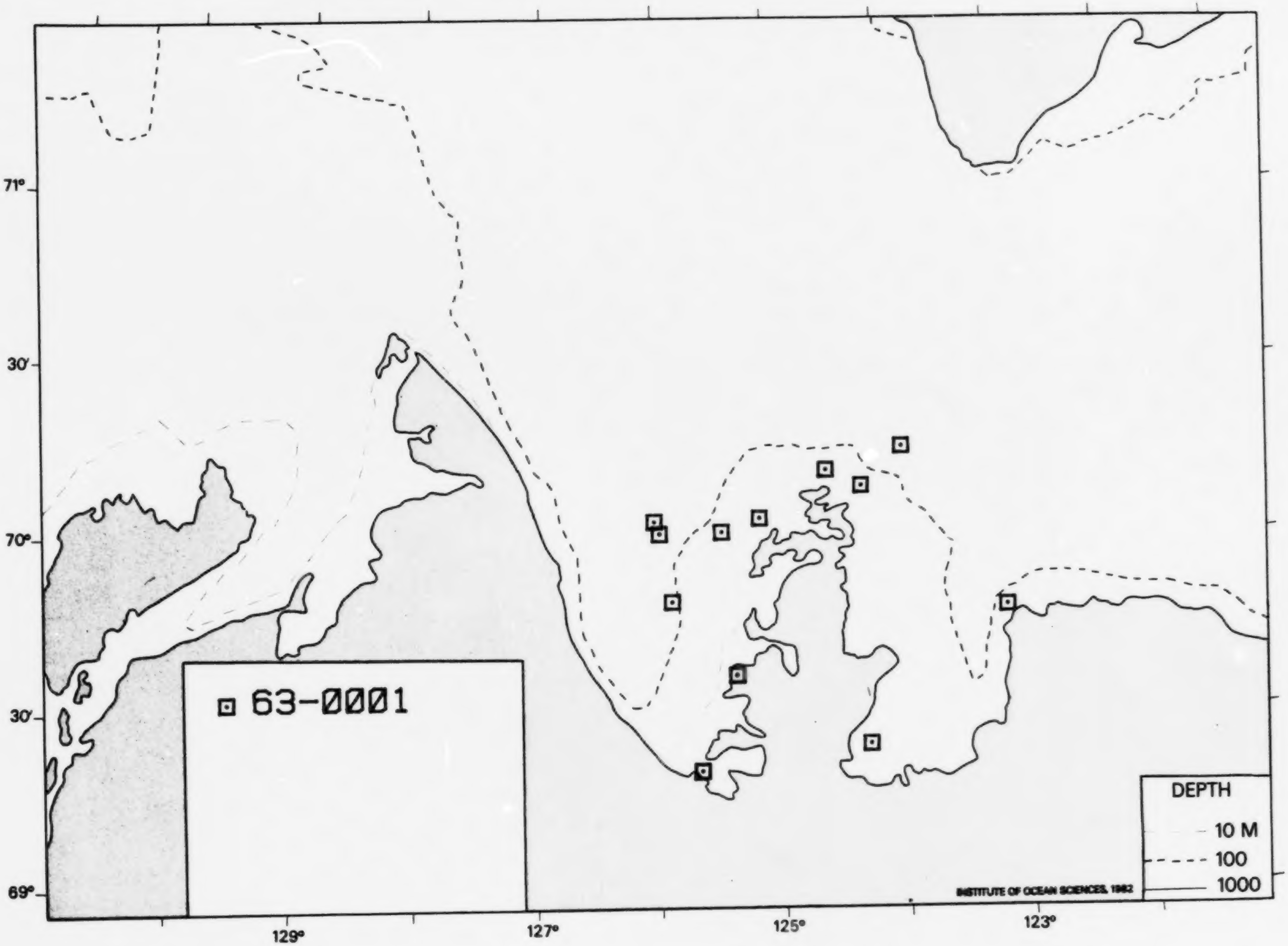

52-0001
52-0002
DEPTH
10 M
100
1000
74°
72°
70°
140°
135°
130°
125°
120°
INSTITUTE OF OCEAN SCIENCES, 1982

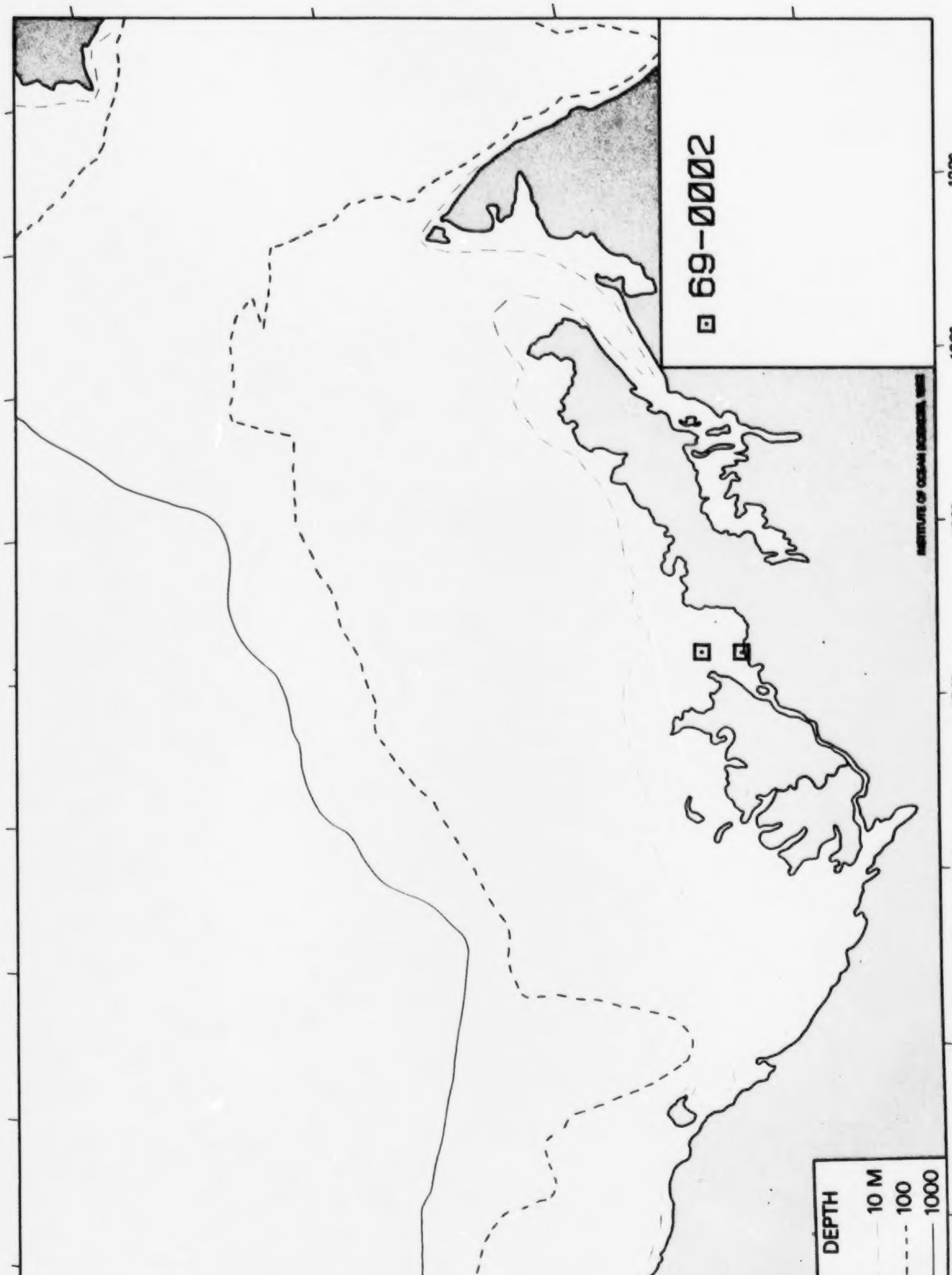

53-0001
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982
72°
71°
70°
69°
118°
120°
122°
124°
126°
128°
130°

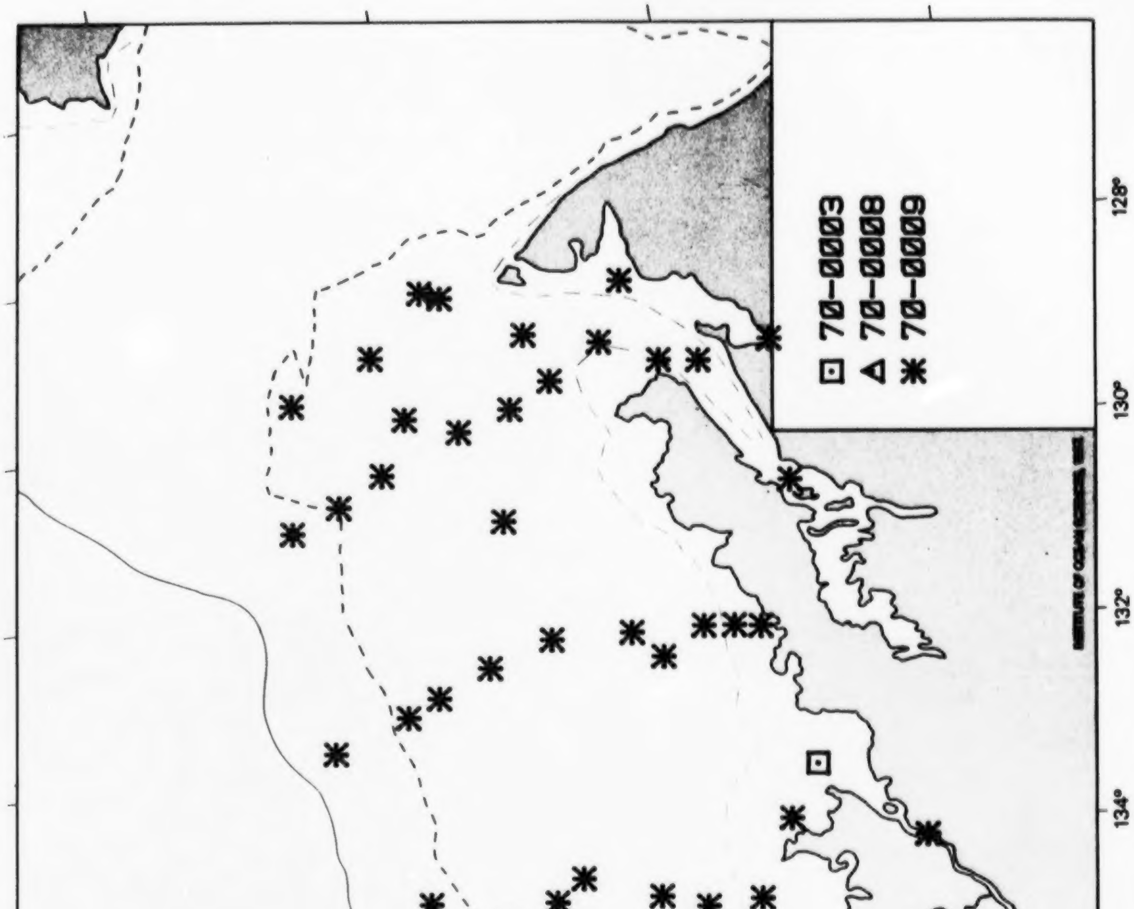

54-0002
54-0003
DEPTH
10 M
100
1000
74°
72°
70°
120°
125°
130°
135°
140°
INSTITUTE OF OCEAN SCIENCES

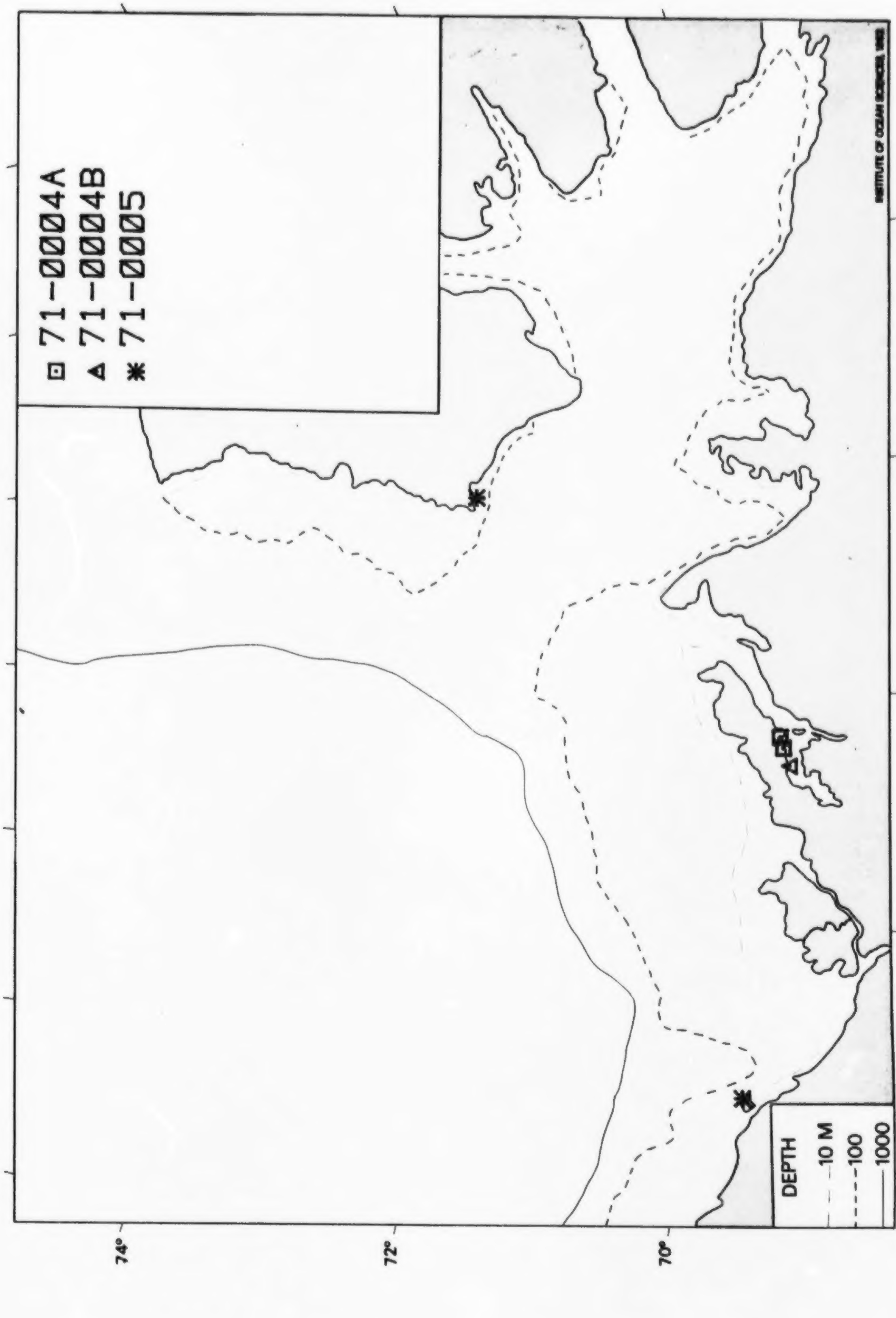

59-0001
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°


62-0001
DEPTH
10 M
100
1000
140°
135°
130°
125°
120°
74°
72°
70°
INSTITUTE OF OCEAN SCIENCES

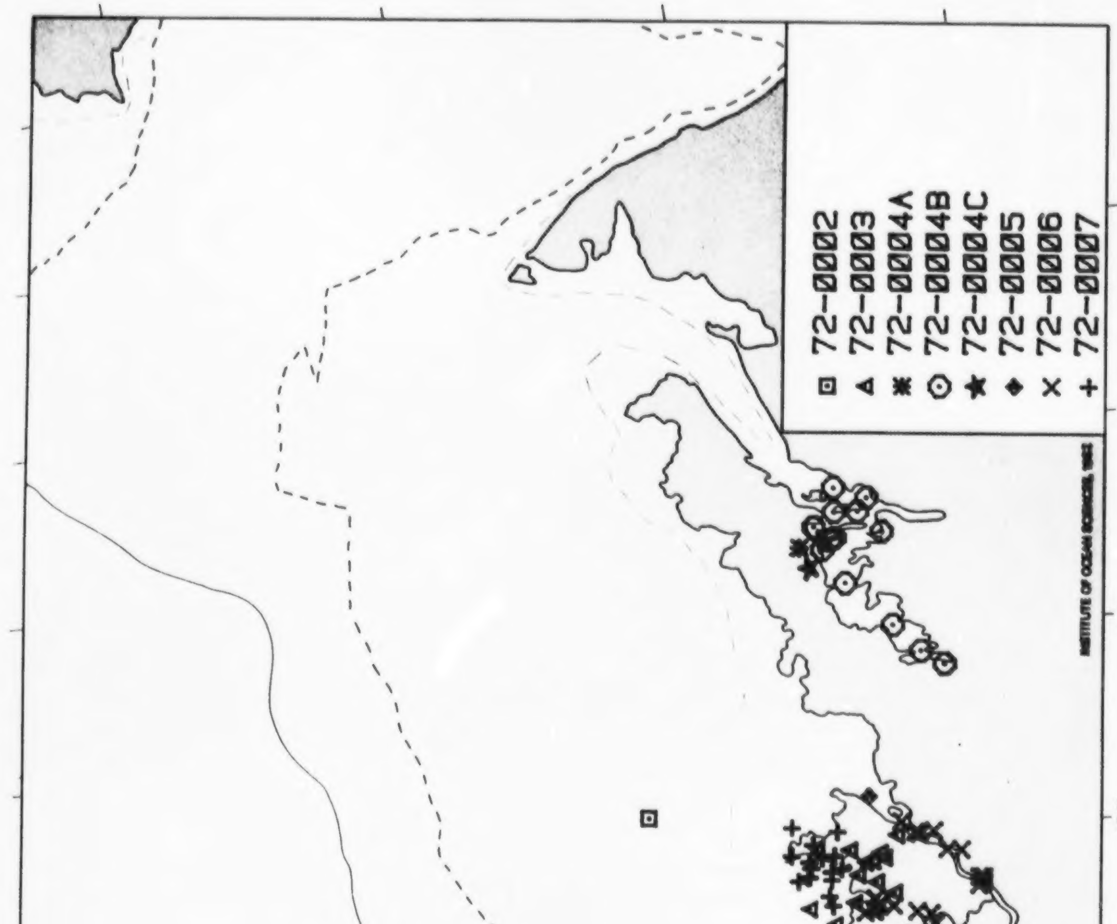

71°
30'
70°
30'
69°
129°
127°
125°
123°
63-0001
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982

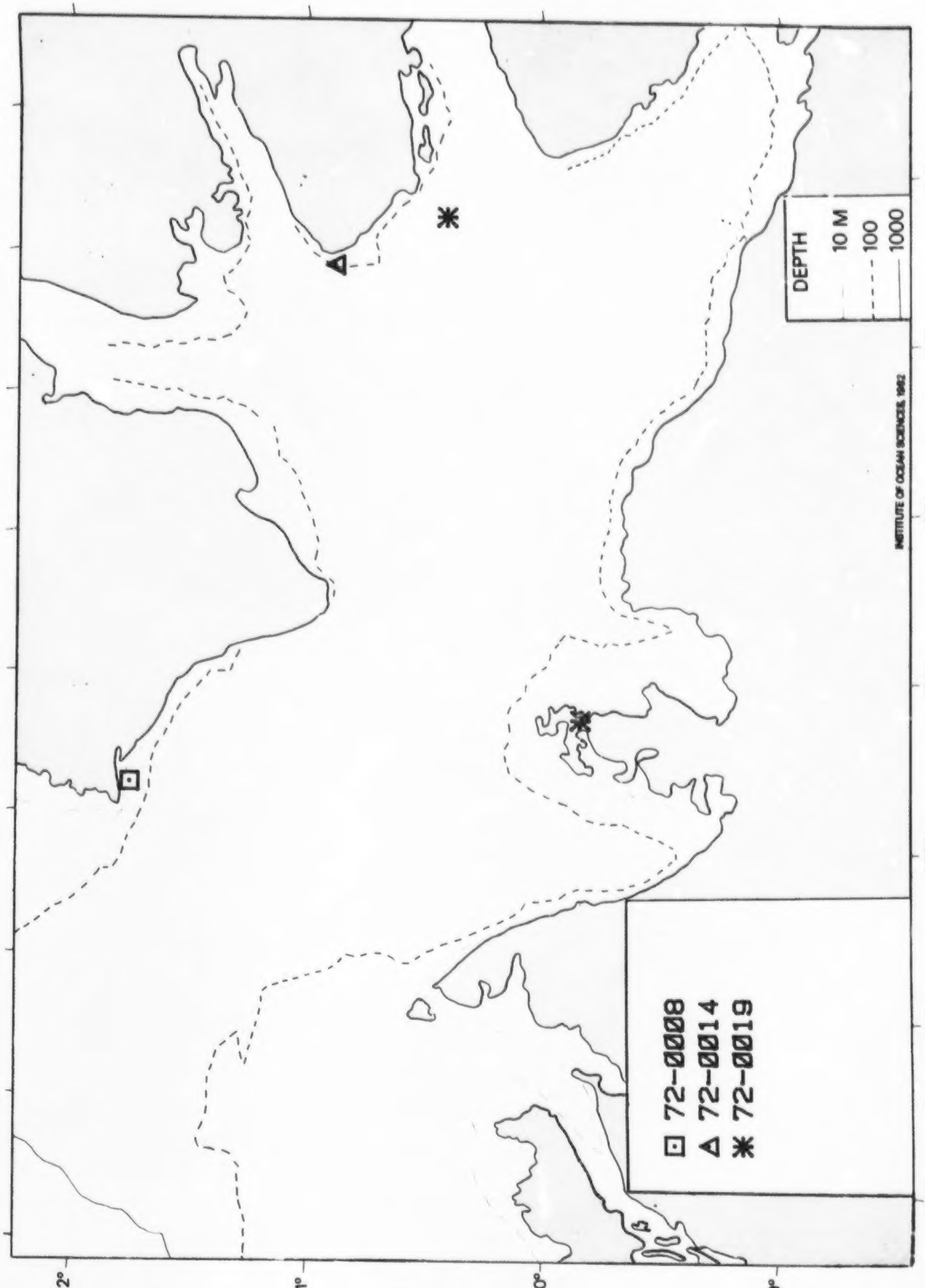

69-0002
DEPTH
10 M
100
1000
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°
INSTITUTE OF OCEAN SCIENCES


72°
71°
70°
69°
140°
138°
136°
134°
132°
130°
128°
DEPTH
10 M
100
1000
⊡ 70-0003
△ 70-0008
✱ 70-0009

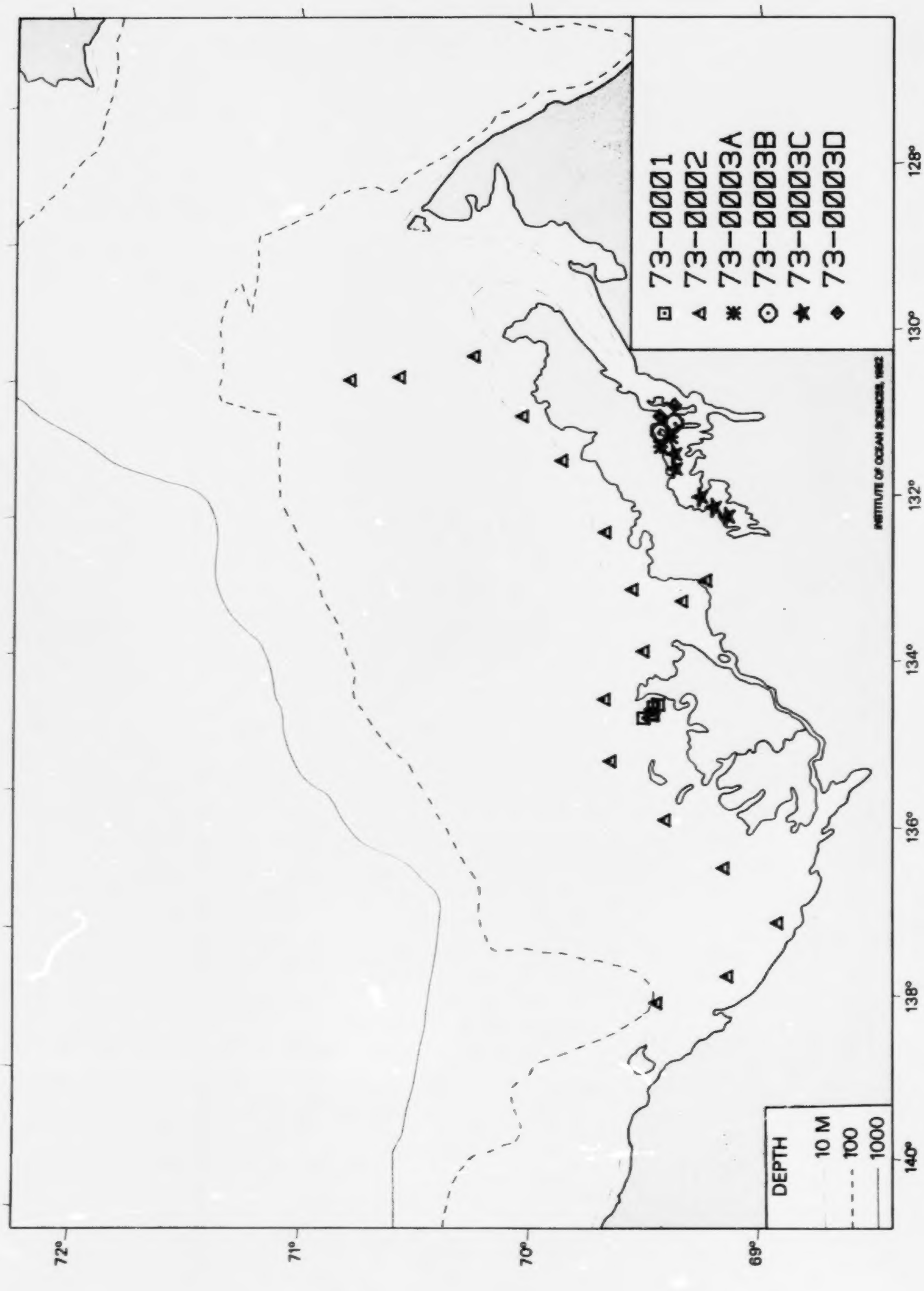


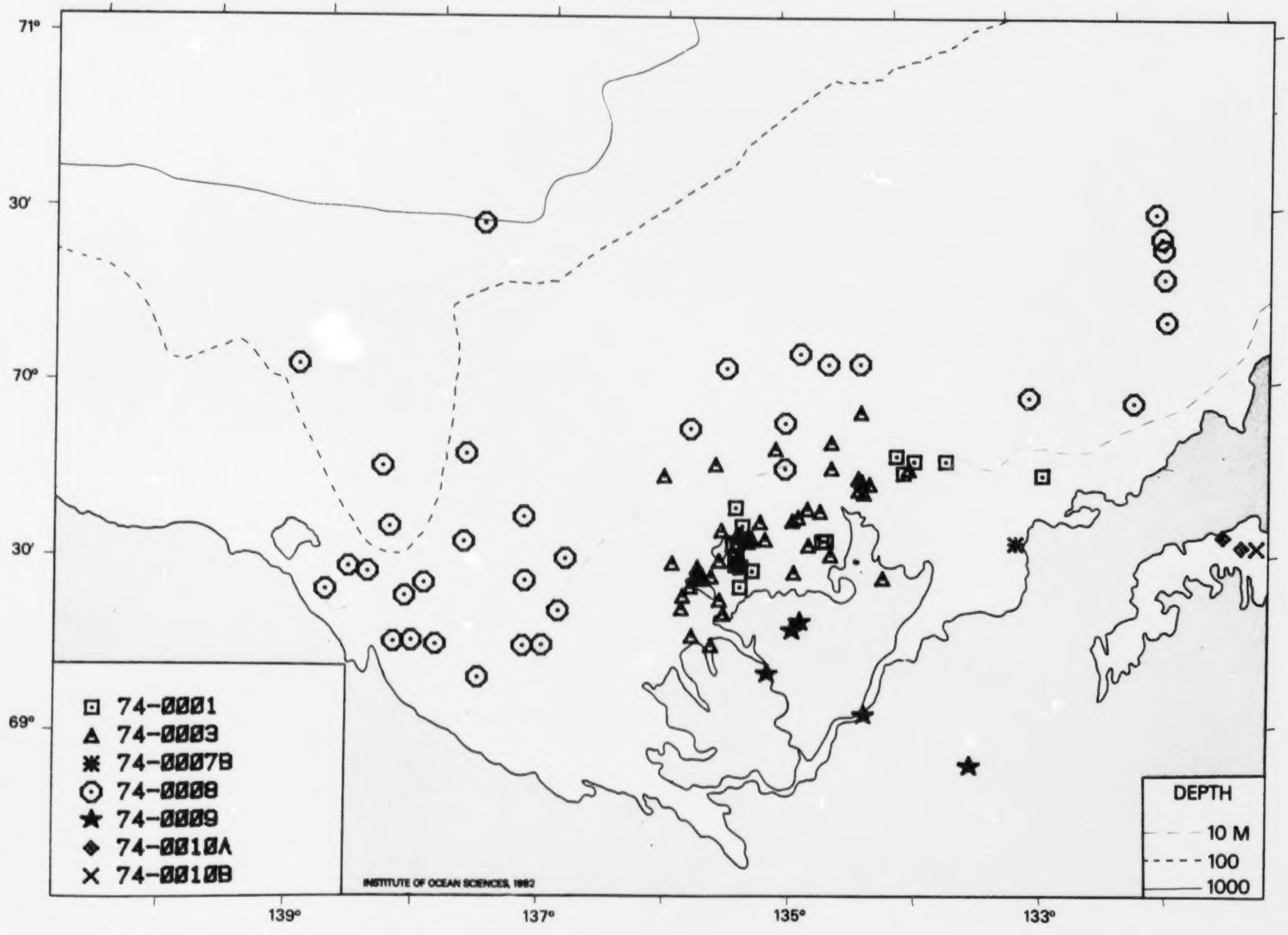
□ 71-0004A
△ 71-0004B
✳ 71-0005
DEPTH
10 M
100
1000
74°
72°
70°
120°
125°
130°
135°
140°
INSTITUTE OF OCEAN SCIENCES

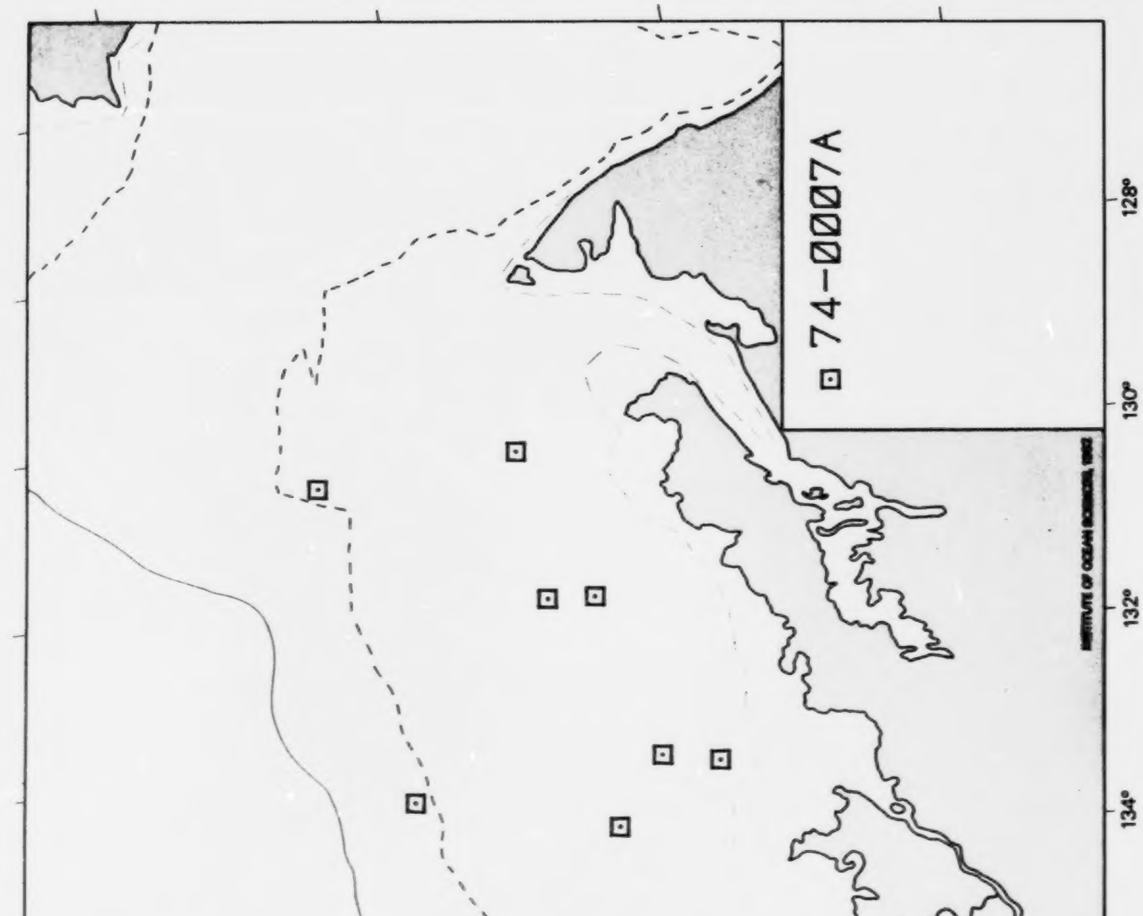

□ 72-0002
△ 72-0003
✱ 72-0004A
⊙ 72-0004B
★ 72-0004C
◆ 72-0005
× 72-0006
+ 72-0007
DEPTH
10 M
100
1000
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°

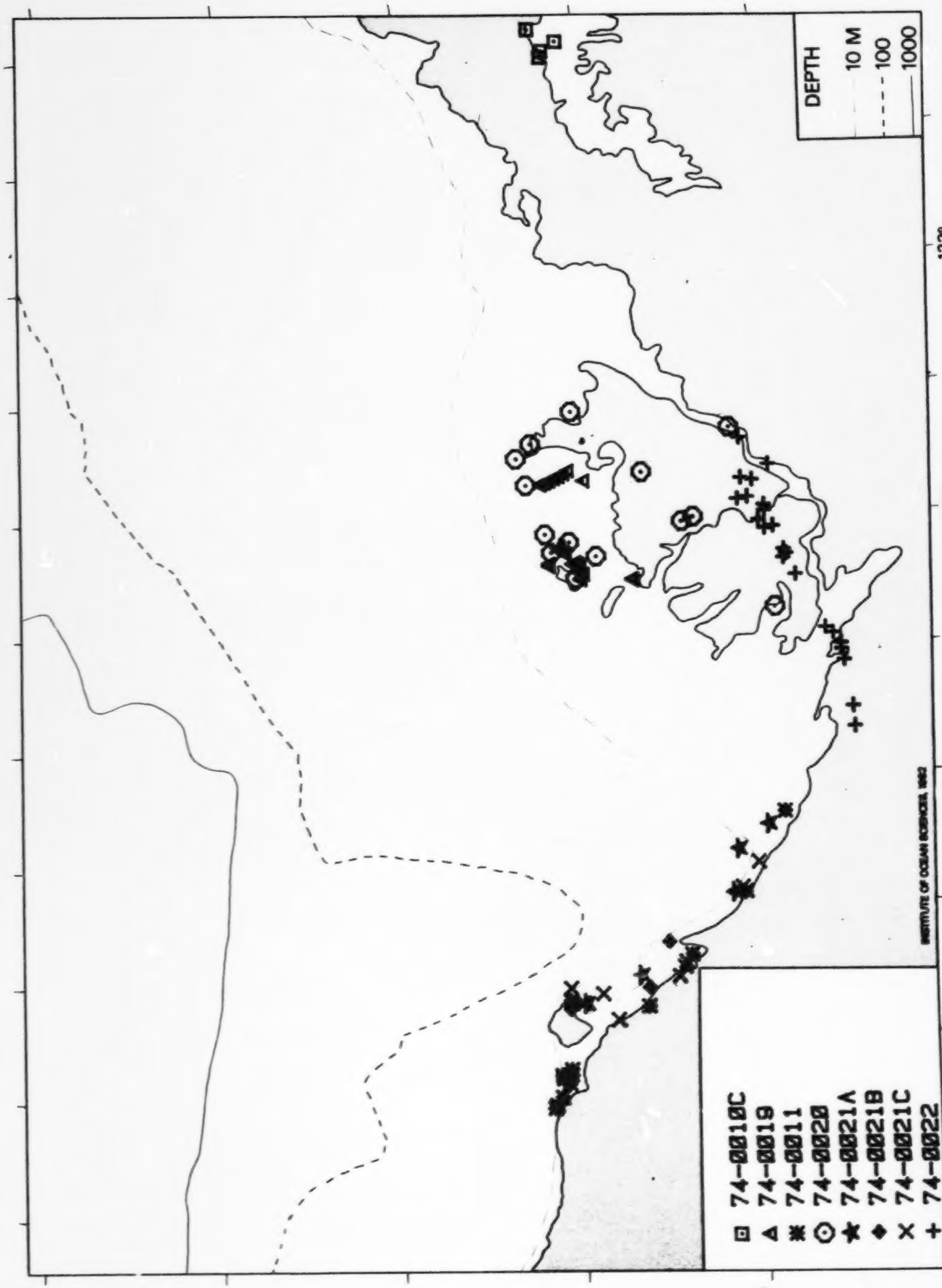

⊡ 72-0008
△ 72-0014
✱ 72-0019
DEPTH
10 M
100
1000
72°
71°
70°
69°
118°
120°
122°
124°
126°
128°
130°

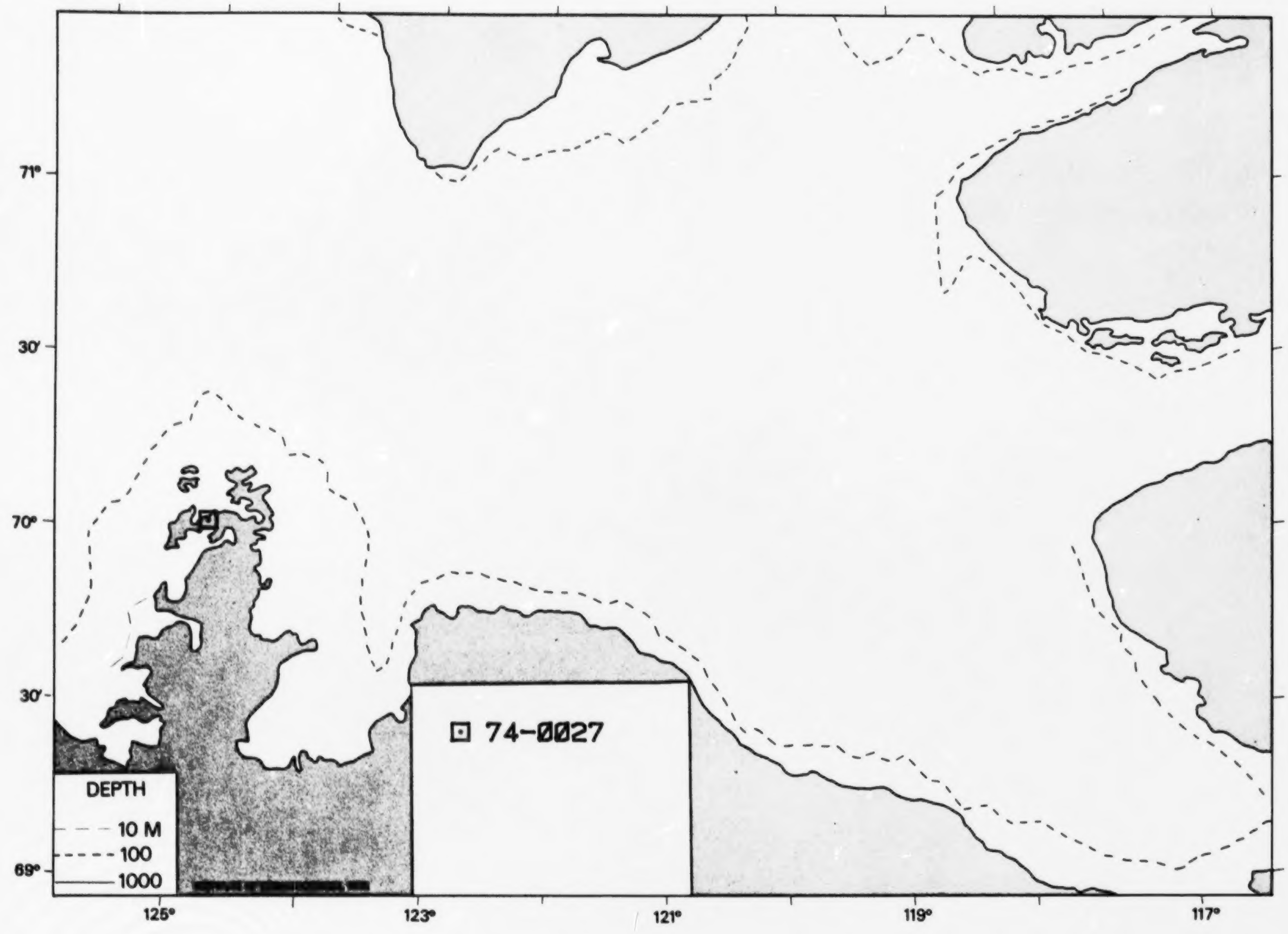
INSTITUTE OF OCEAN SCIENCES, 1982

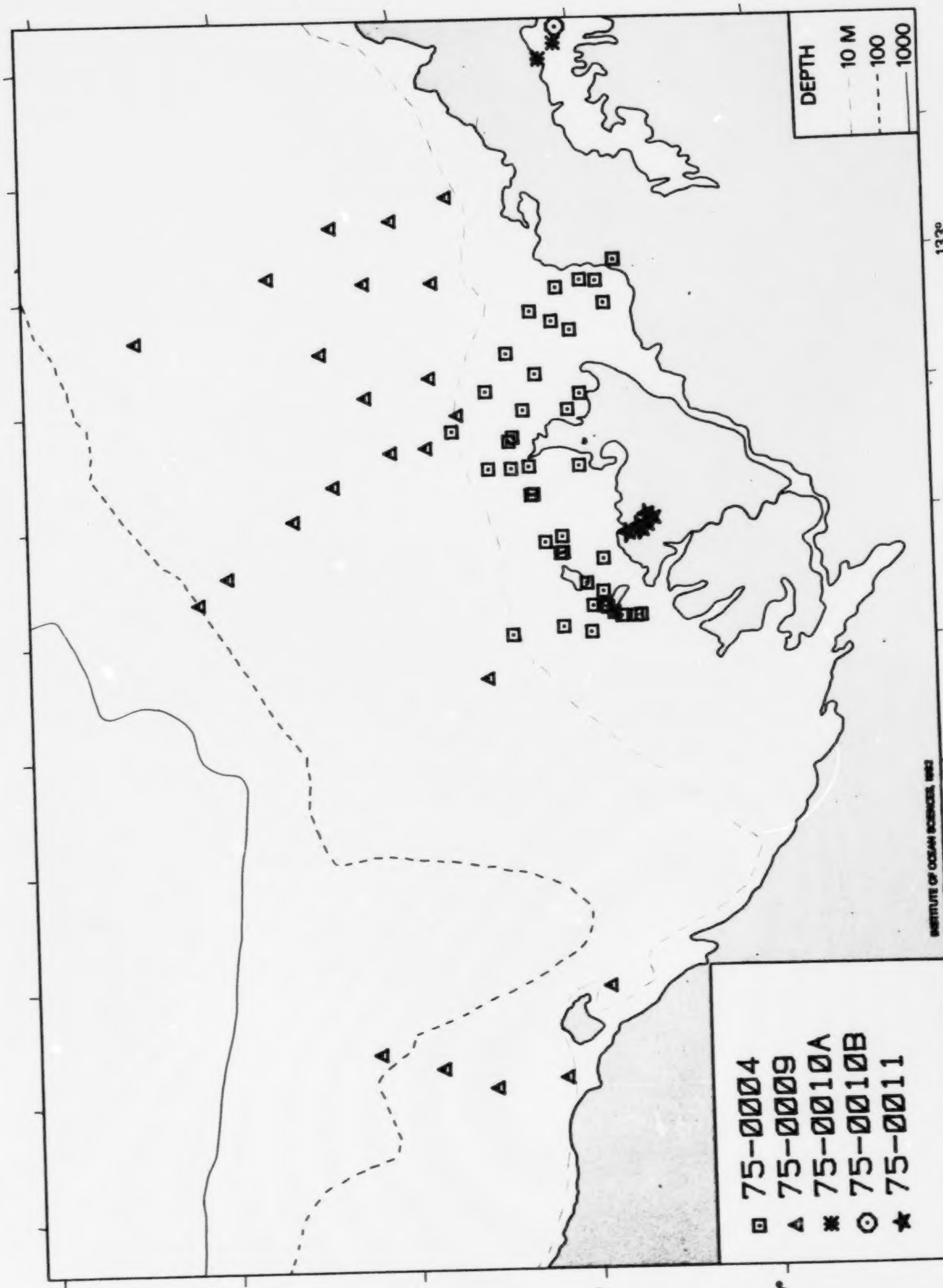

73-0001
73-0002
73-0003A
73-0003B
73-0003C
73-0003D
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°

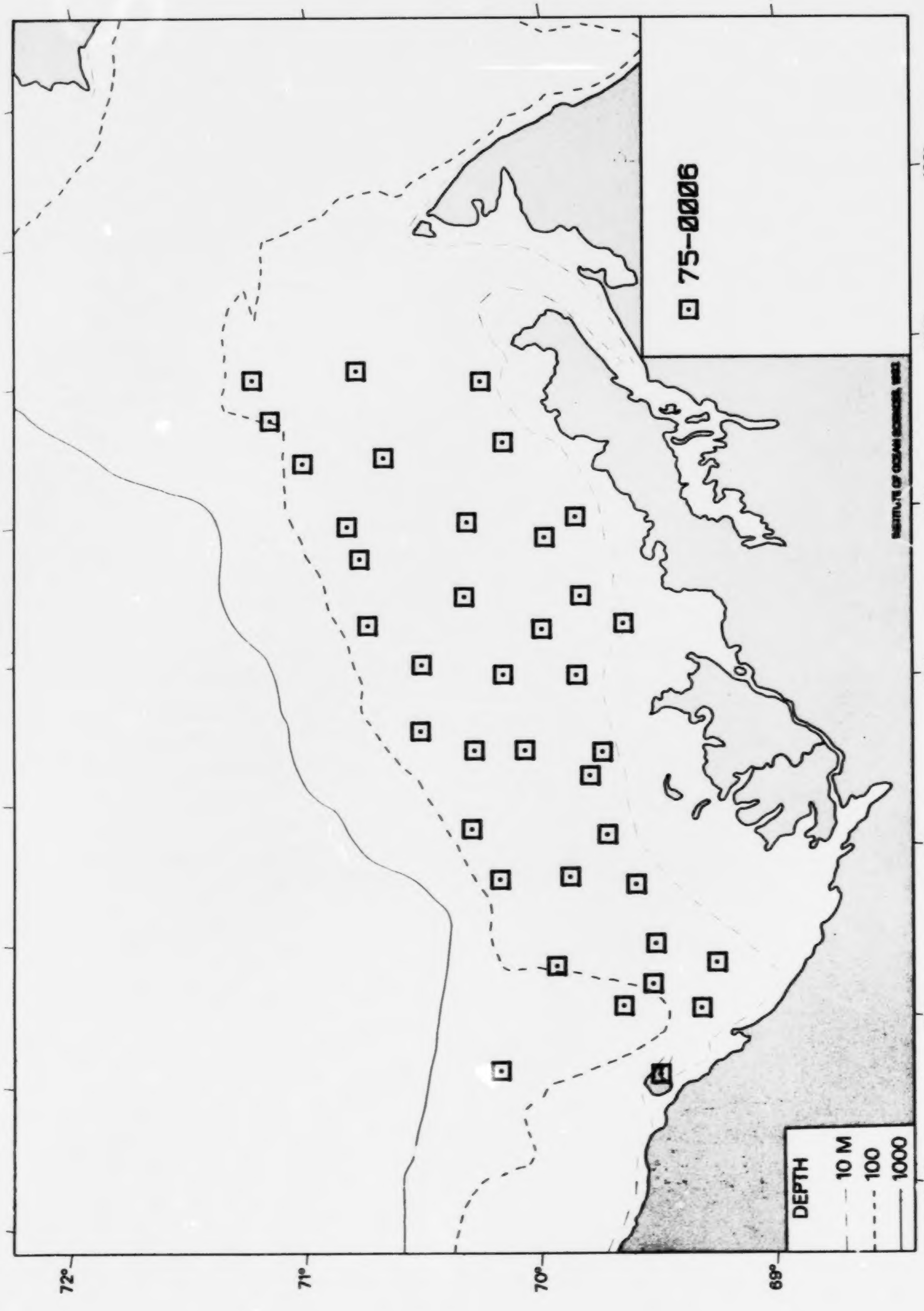

71°
30′
70°
30′
69°
139°
137°
135°
133°
□ 74-0001
△ 74-0003
✳ 74-0007B
⊙ 74-0008
★ 74-0009
◆ 74-0010A
× 74-0010B
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982

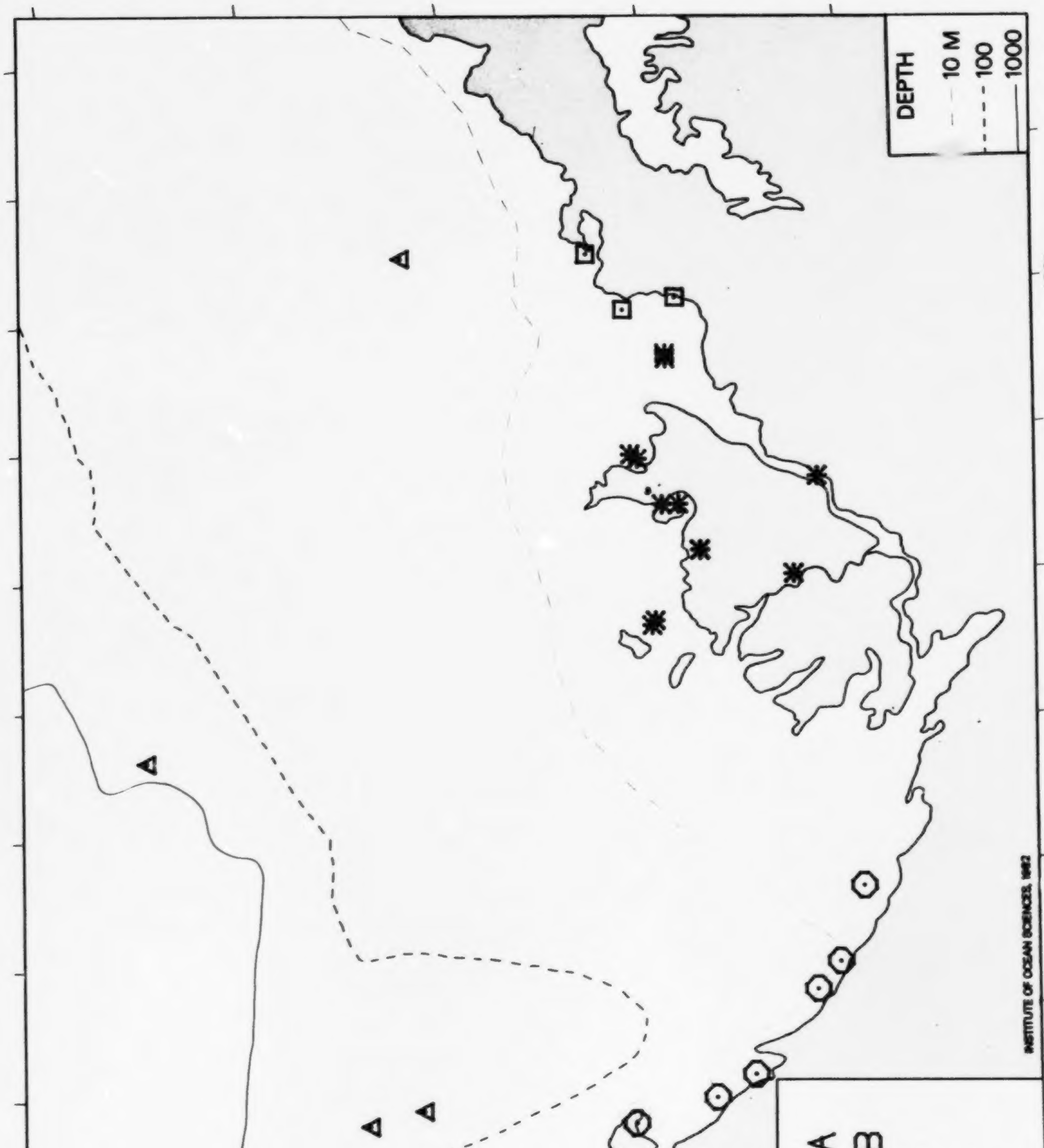

74-0007A
DEPTH
10 M
100
1000
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°
INSTITUTE OF OCEAN SCIENCES, 1982

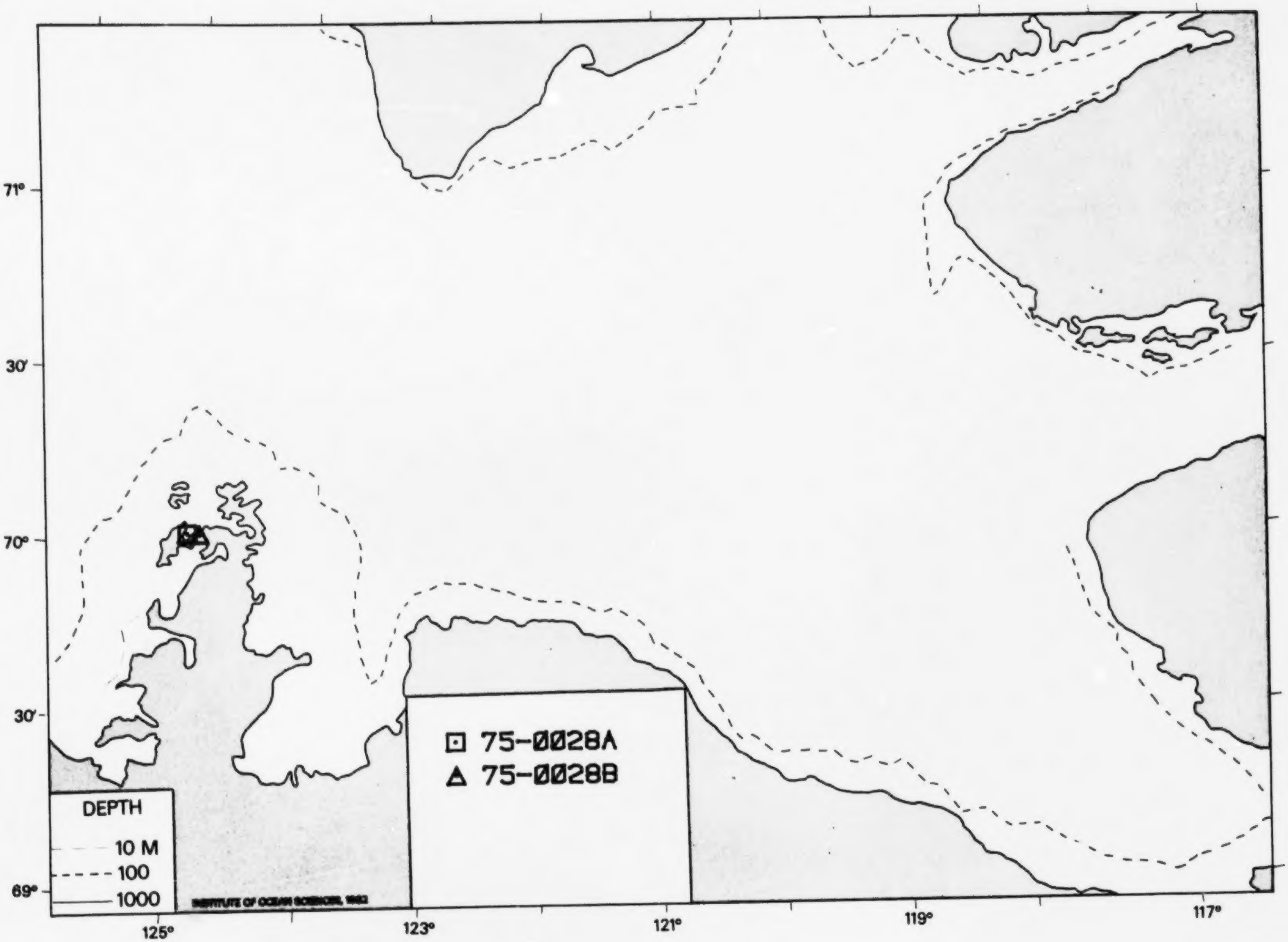

DEPTH
10 M
100
1000
74-0010C
74-0019
74-0011
74-0020
74-0021A
74-0021B
74-0021C
74-0022
139°
137°
135°
133°
71°
30'
70°
30'
69°
INSTITUTE OF OCEAN SCIENCES, 1982

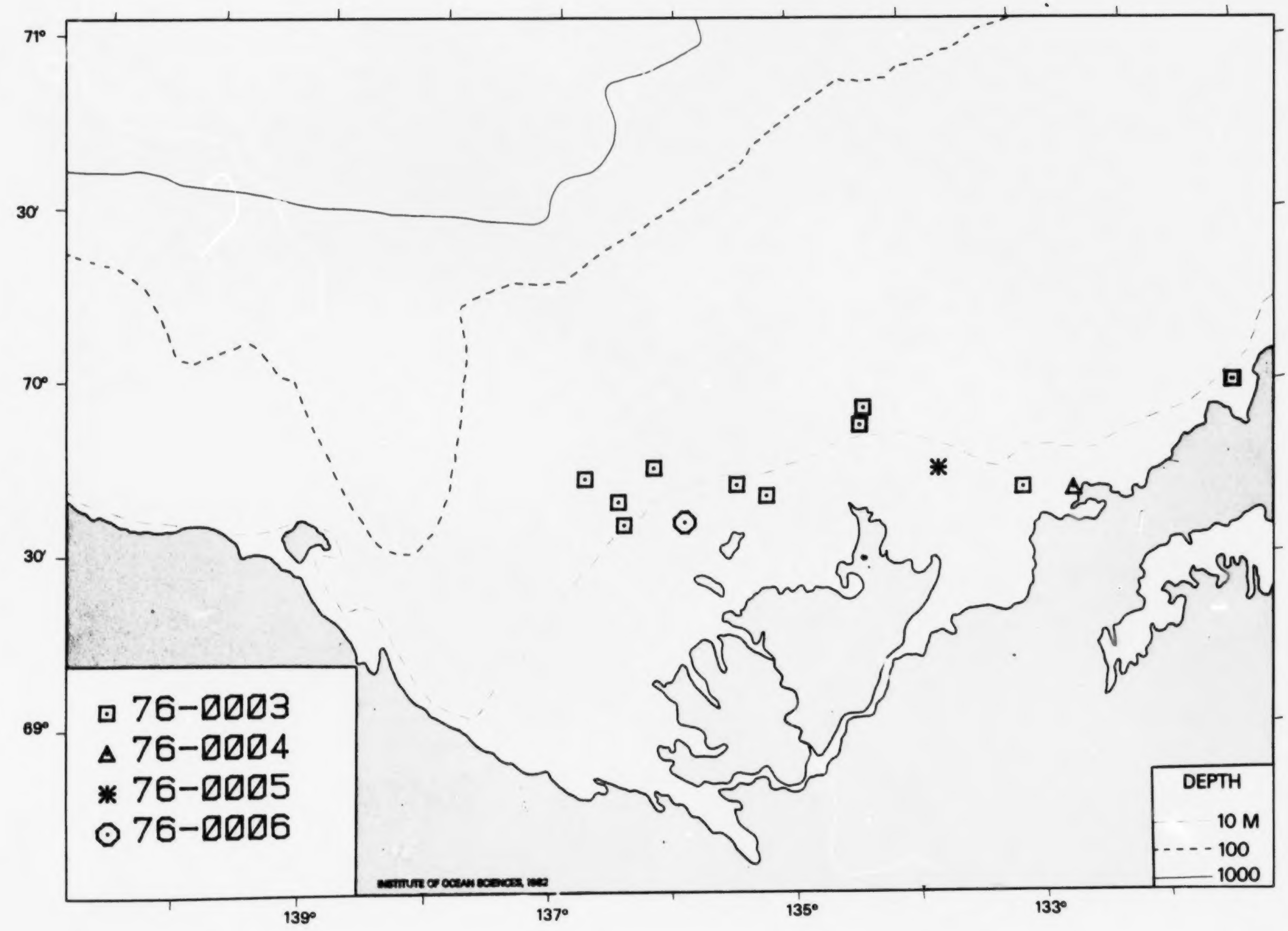

74-0027
DEPTH
10 M
100
1000
71°
30'
70°
30'
69°
125°
123°
121°
119°
117°

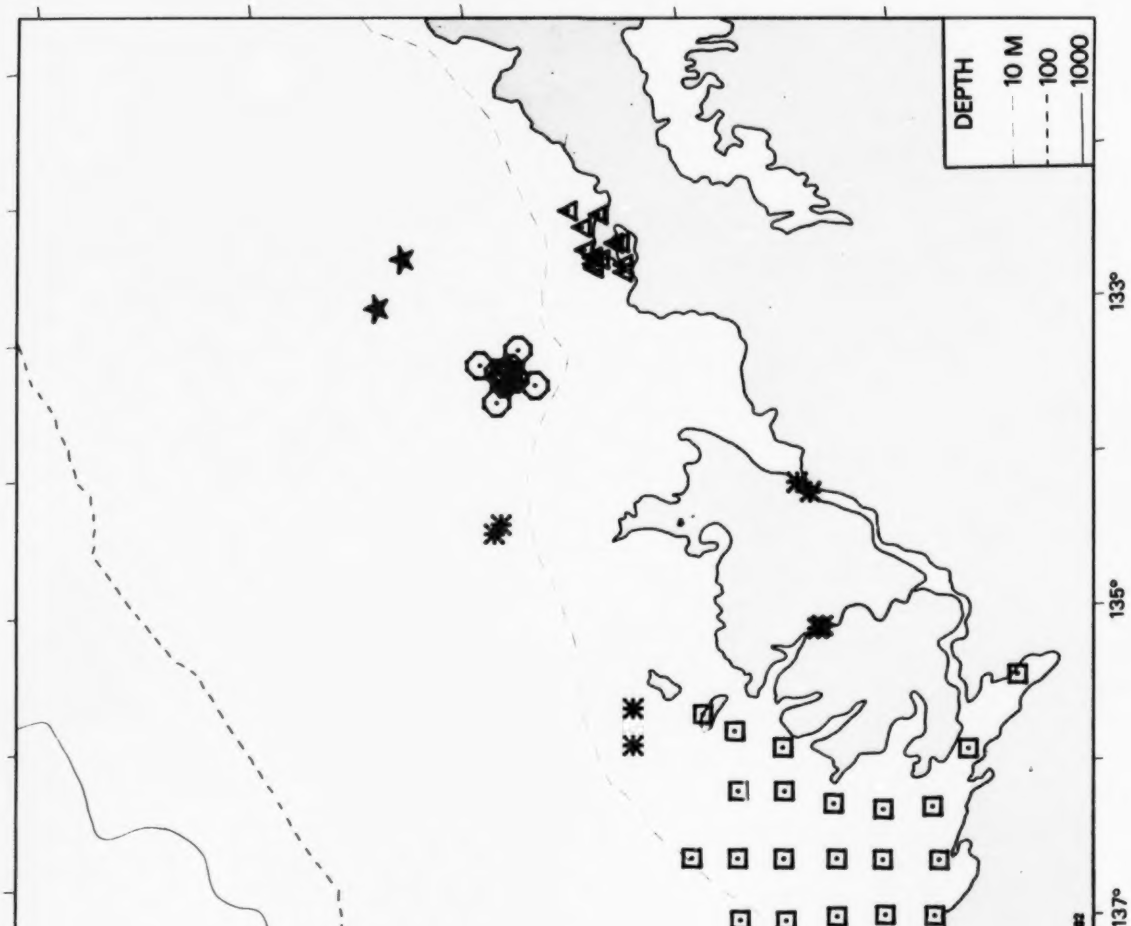

75-0004
75-0009
75-0010A
75-0010B
75-0011
DEPTH
10 M
100
1000
71°
30'
70°
30'
69°
139°
137°
135°
133°
INSTITUTE OF OCEAN SCIENCES, 1982

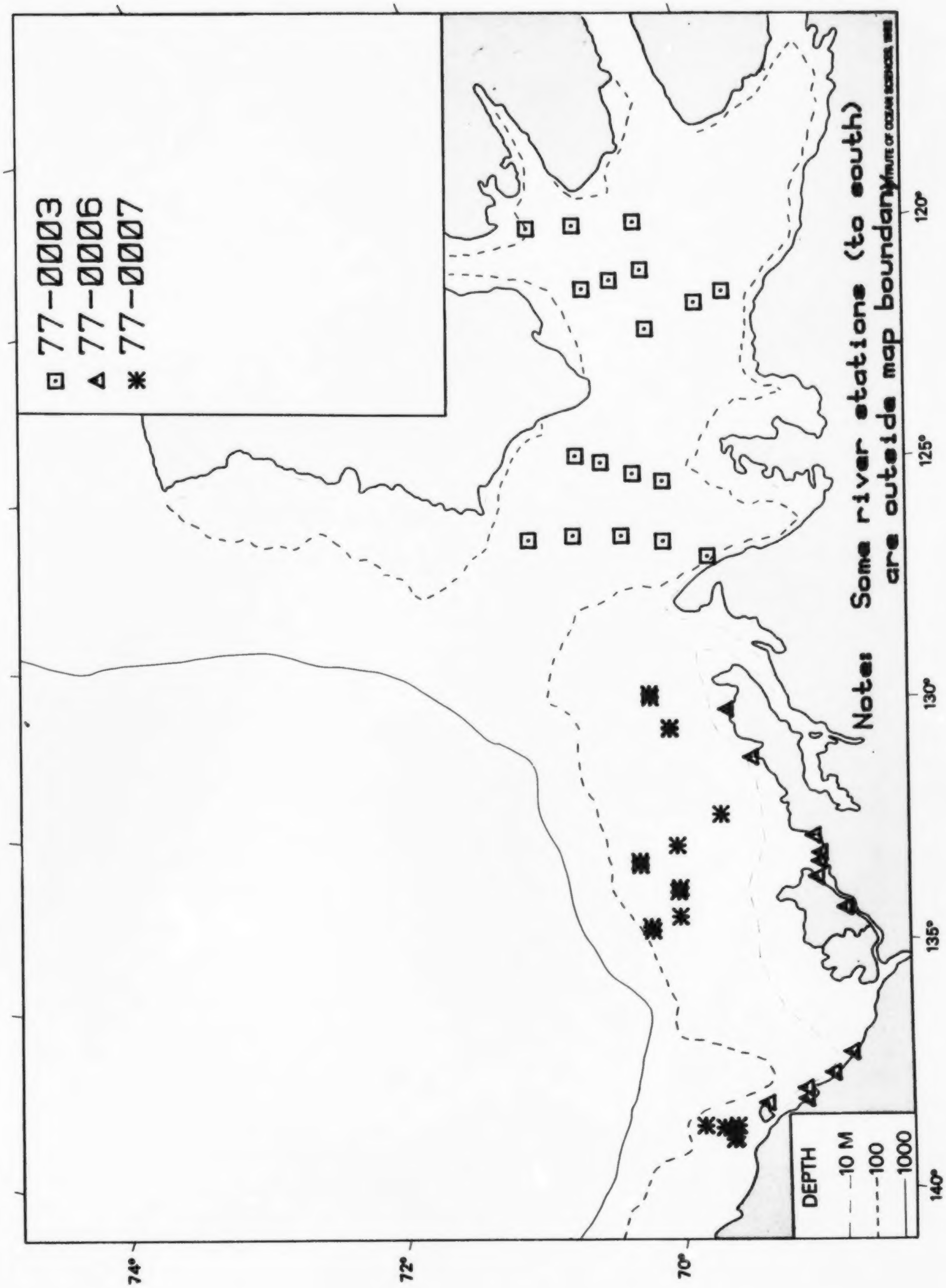

72°
71°
70°
69°
140°
138°
136°
134°
132°
130°
128°
75-0006
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982

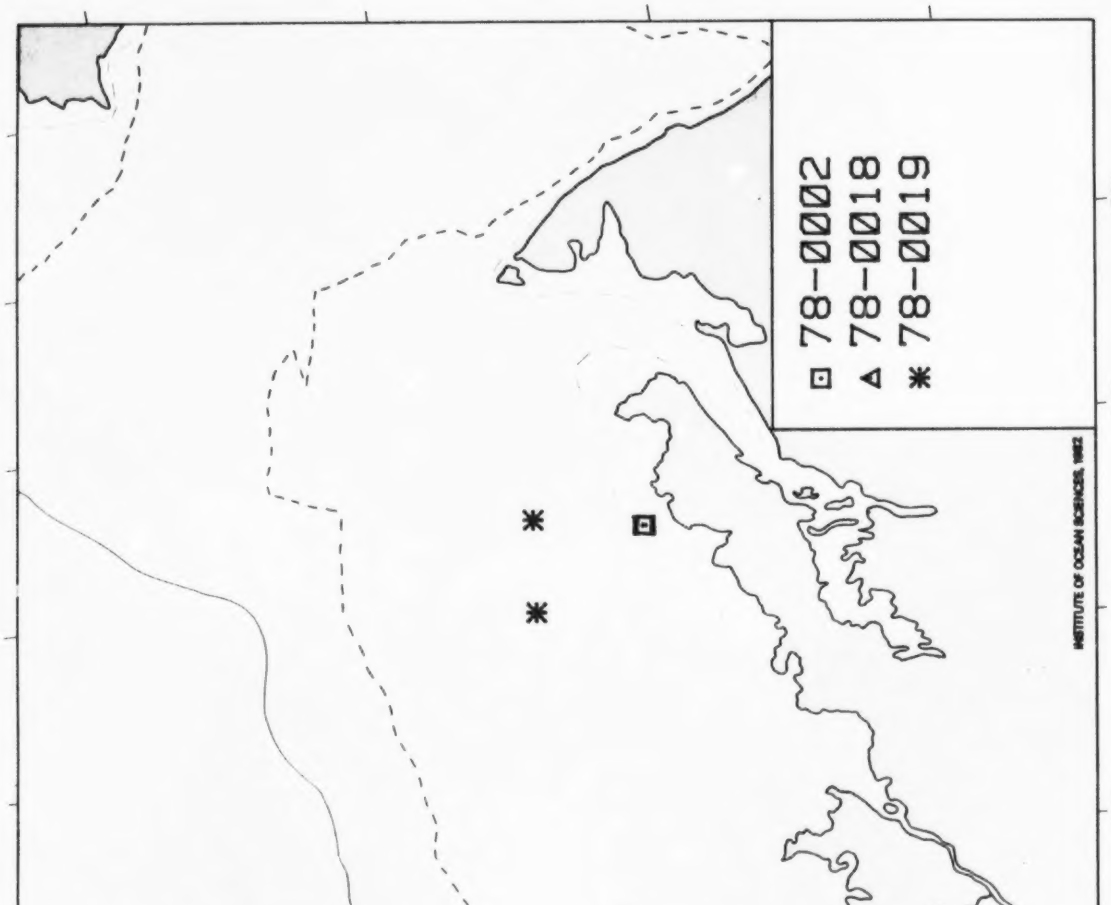

75-0012A
75-0012B
75-0024
75-0025
DEPTH
10 M
100
1000
133°
135°
137°
139°
71°
30'
70°
30'
69°
INSTITUTE OF OCEAN SCIENCES, 1982

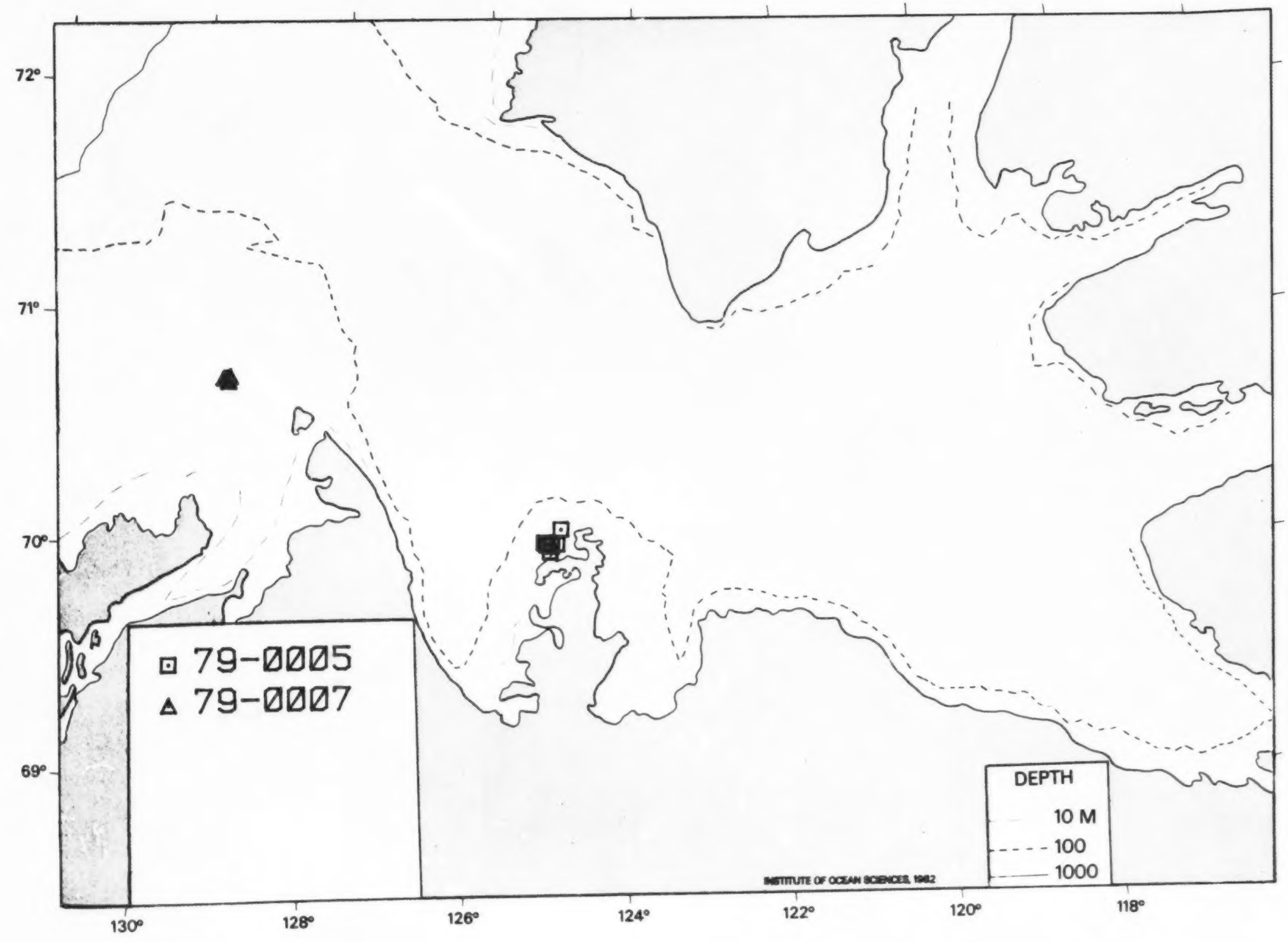

71°
30'
70°
30'
69°
125°
123°
121°
119°
117°
□ 75-0028A
Δ 75-0028B
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, [illegible]

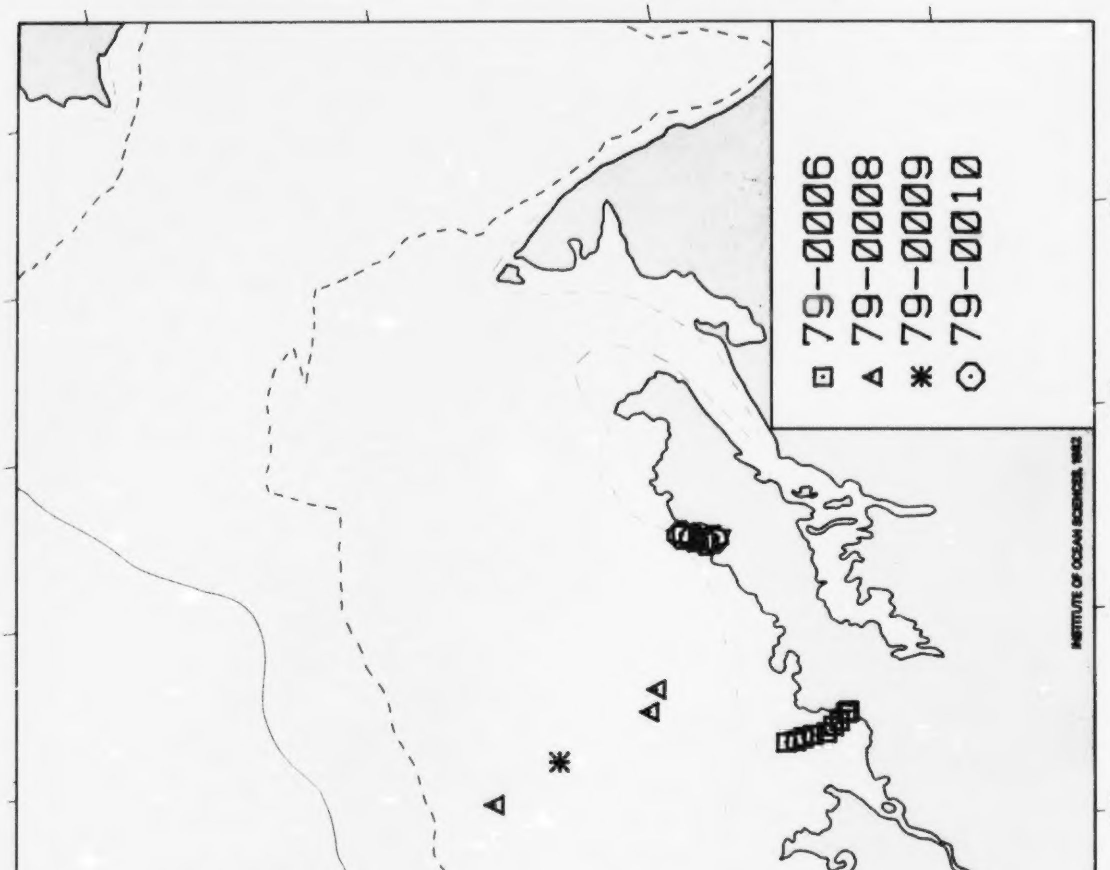

71°
30'
70°
30'
69°
139°
137°
135°
133°
76-0003
76-0004
76-0005
76-0006
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982


77-0001
77-0002
77-0008
77-0009
77-0010
DEPTH
10 M
100
1000
71°
30'
70°
30'
69°
133°
135°
137°
139°
INSTITUTE OF OCEAN SCIENCES, 1982

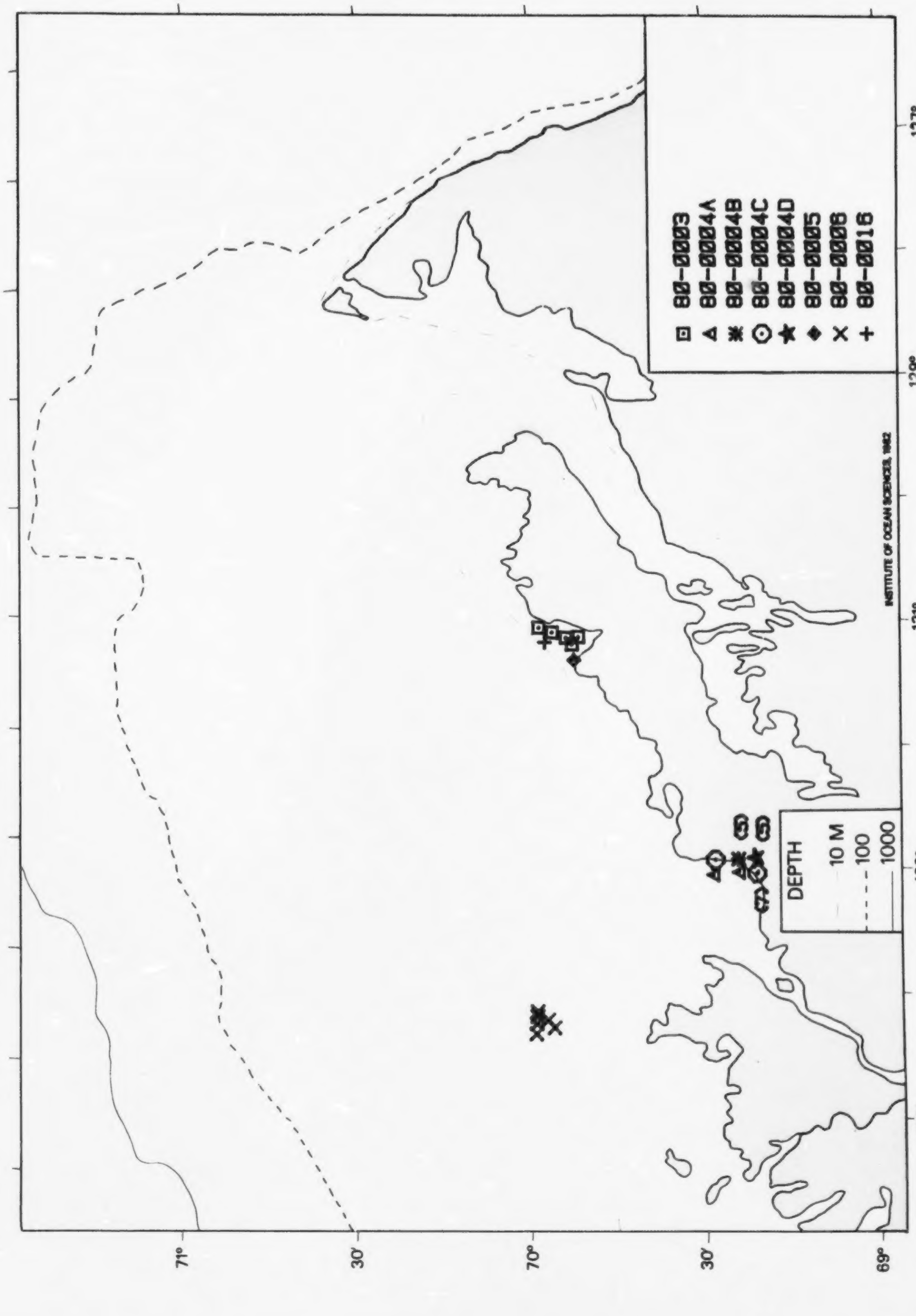

□ 77-0003
△ 77-0006
✱ 77-0007
Notes: Some river stations (to south) are outside map boundary
INSTITUTE OF OCEAN SCIENCES, 1982
DEPTH
10 M
100
1000
74°
72°
70°
140°
135°
130°
125°
120°


□ 78-0002
△ 78-0018
✱ 78-0019
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°

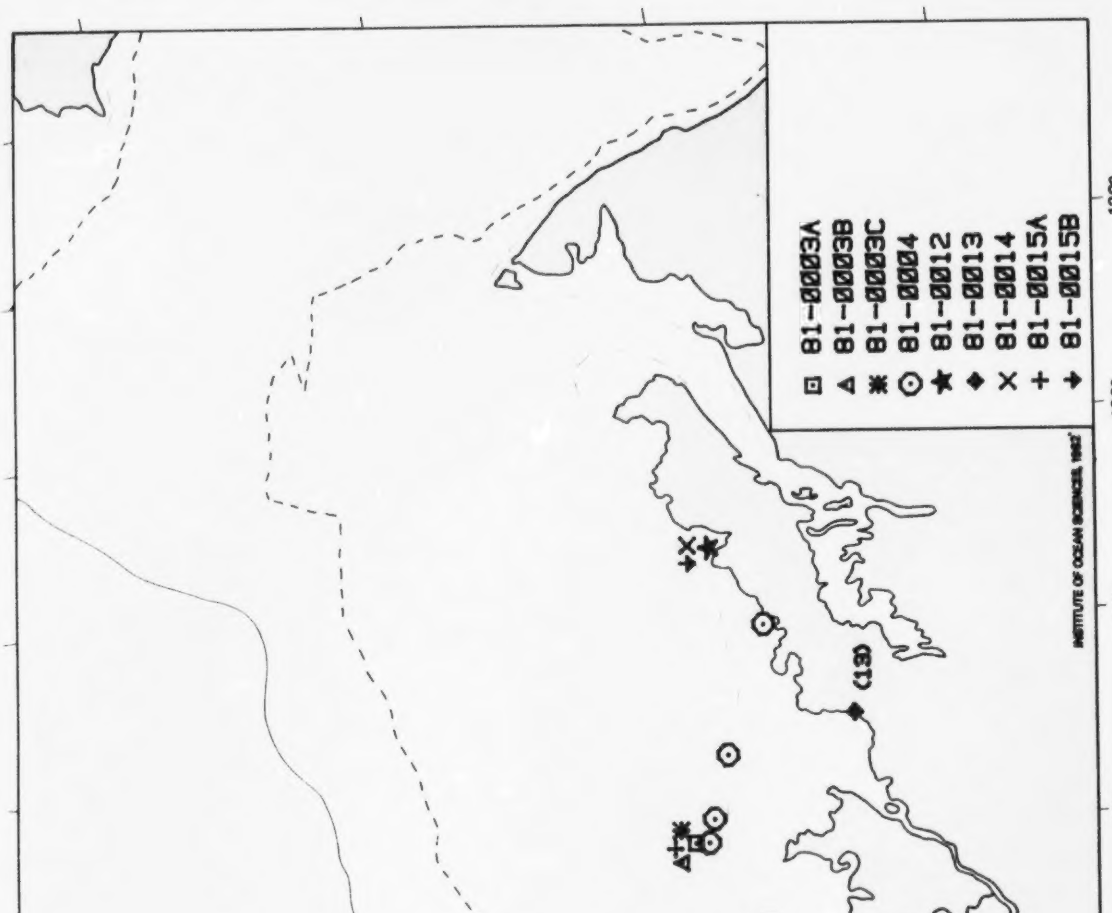

72°
71°
70°
69°
130°
128°
126°
124°
122°
120°
118°
⊡ 79-0005
▲ 79-0007
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982

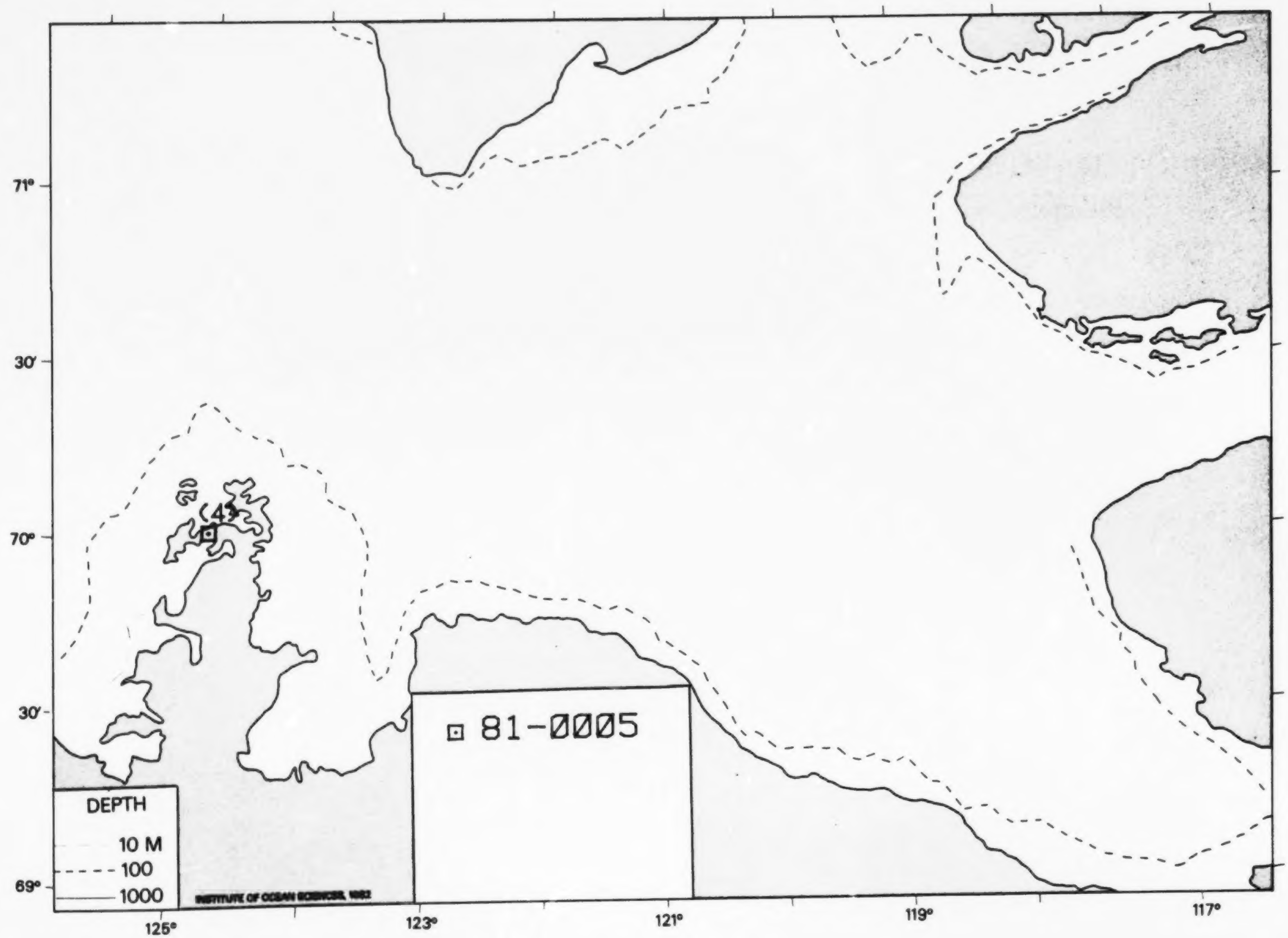


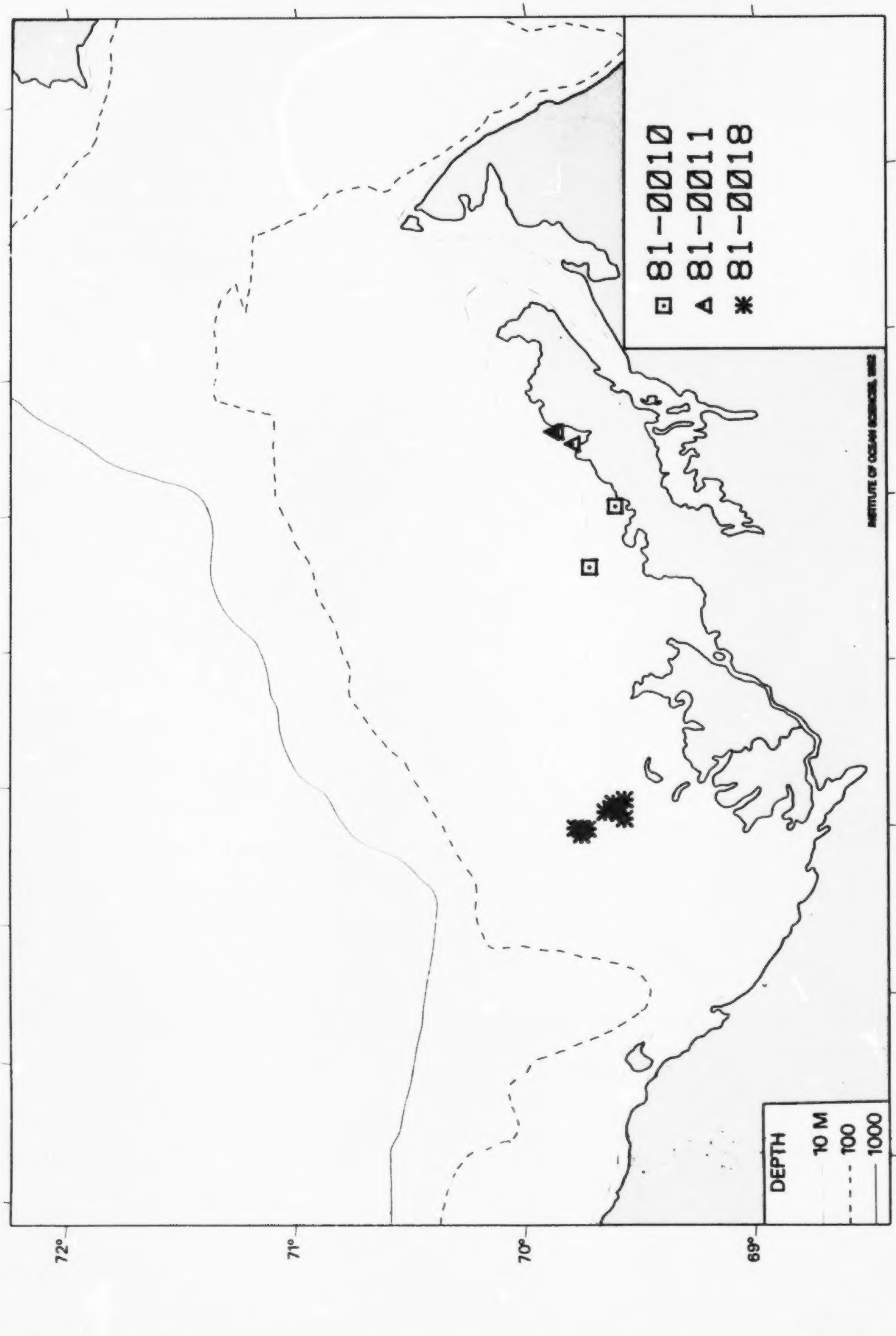
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°
□ 79-0006
△ 79-0008
✱ 79-0009
⊙ 79-0010
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982



80-0003
80-0004A
80-0004B
80-0004C
80-0004D
80-0005
80-0006
80-0016
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982
127°
129°
131°
133°
135°
71°
30'
70°
30'
69°


⊡ 81-0003A
△ 81-0003B
✳ 81-0003C
⊙ 81-0004
★ 81-0012
◆ 81-0013
× 81-0014
+ 81-0015A
✦ 81-0015B
(13)
INSTITUTE OF OCEAN SCIENCES, 1982
DEPTH
10 M
100
1000
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°


71°
30'
70°
30'
69°
125°
123°
121°
119°
117°
(4)
81-0005
DEPTH
10 M
100
1000
INSTITUTE OF OCEAN SCIENCES, 1982


81-0010
81-0011
81-0018
DEPTH
10 M
100
1000
72°
71°
70°
69°
128°
130°
132°
134°
136°
138°
140°
INSTITUTE OF OCEAN SCIENCES, 1982

11. INDICES

11.1 Geographical Index of Data Set Occurrence
11.2 Index of References by Data Set Number

11.1 Geographic Index of Data Set Occurrence

INTERTIDAL BEAUFORT COAST	FIRTH-MALCOLM RIVER ESTUARIES	HERSCHEL ISLAND	THETIS BAY	PHILLIPS BAY	TRENT BAY	MACKENZIE BAY
77-0006	74-0011	71-0005	74-0021A	74-0021A	74-0021A	72-0003
			74-0021B	74-0021B	74-0021B	72-0007
			74-0021C	74-0021C	74-0021C	73-0001
			75-0025	75-0025	75-0025	74-0001
						74-0003
						74-0019
						75-0004
						77-0001
						77-0008

ACKENZIE RIVER DELTA	RICHARDS ISLAND	KUGMALLIT BAY	TUKTOYAKTUK HARBOUR	McKINLEY BAY	ESKIMO LAKES	LIVERPOOL BAY
9-0002	75-0011	70-0003	79-0006	79-0006	62-0001	62-0001
2-0003		72-0005	80-0004A	79-0010	71-0004A	73-0003C
2-0006		74-0007B	80-0004B	80-0003	71-0004B	
4-0009		75-0004	80-0004C	80-0005	72-0004A	
4-0020		76-0003	80-0004D	80-0016	72-0004B	
4-0022		77-0002	81-0013	81-0011	72-0004C	
5-0024		81-0010		81-0012	73-0003A	
7-0006				81-0014	73-0003B	
7-0008				81-0015B	73-0003C	
					73-0003D	
					74-0010A	
					74-0010B	
					74-0010C	
					75-0010A	
					75-0010B	

BALAENA BAY	AMUNDSEN GULF	TUKTOYAKTUK CONTINENTAL SHELF	CONTINENTAL SLOPE	SACHS HARBOUR	CANADA BASIN
74-0027	53-0001	52-0001	50-0001	71-0005	51-0001
75-0028A	54-0003	54-0002	51-0001	72-0008	59-0001
75-0028B	63-0001	70-0008	52-0002		
81-0005	72-0014	70-0009	54-0002		
	72-0019	72-0002	69-0001		
	77-0003	73-0002			
	79-0005	74-0007A			
		74-0008			
		75-0006			
		75-0009			
		75-0011			
		75-0012A			
		75-0012B			
		75-0027			
		76-0004			
		76-0005			
		76-0006			
		77-0007			
		77-0009			
		77-0010			
		78-0002			
		78-0018			
		78-0019			
		79-0007			
		79-0008			
		79-0009			
		80-0006			
		81-0003A			
		81-0003B			
		81-0003C			
		81-0004			
		81-0015A			
		82-0001			

11.2 Index of References by Data Set Number

(Secondary references are indented.)

50-0001 U.S. Navy Hydrographic Office, 1954. Oceanographic observations, U.S.S. *Burton Island*, 1950 - 1953. H.O. Pub. 618-C, U.S. Navy Hydrographic Office, Washington,D.C. (unpublished manuscript), 309 pp.

51-0001 See **50-0001**

52-0001 Cameron,W.M., 1953. Hydrography and Oceanography of the southeast Beaufort Sea and Amundsen Gulf, Part 2: Hydrographic and oceanographic observations in the Beaufort Sea, 1952. Institute of Oceanography, University of British Columbia, 12 pp +Appendices.

52-0002 See **50-0001**

53-0001 See **50-0001**

54-0002 U.S. Navy Hydrographic Office, 1956. Oceanographic survey results, Beaufort Sea area, summer 1954. U.S.S. *Burton Island* (AGB-1) and USCGC *Northwind* (WAGB-282). H.O. 15791, January 1956. U.S. Navy Hydrographic Office, Washington, D.C. (unpublished manuscript), 102 pp. computer output.

54-0003 See **54-0002**

59-0001 Kusunoki, K., 1962. Hydrography of the Arctic Ocean with special reference to the Beaufort Sea. Contributions from the Institute of Low Temperature Science, Series A, No. 17. Inst. of Low Temp. Sc., Hokkaido University, Saffopo, Japan, 75 pp.

> Kusunoki, K., J. Muguruma and K. Higuchi, 1962. Oceanographic Observations at Fletcher's Ice Island (T-3) in the Arctic Ocean in 1959-1960. Research Paper No. 22, Arctic Institute of North America, 110 pp.

62-0001 Canadian Oceanographic Data Centre, 1963. Cape Parry Area, N.W.T. No. 5, 1963 Data Record Series. Canadian Oceanographic Data Centre, Dept. Energy, Mines and Resources, Ottawa, 44 pp.

63-0001 Canadian Oceanographic Data Centre, 1964. Data Record - Franklin and Darnley Bays, N.W.T. No. 2, 1964 Data Record Series, Canadian Oceanographic Data Centre, Dept. Energy, Mines and Resource, Ottawa, 47 pp.

69-0001 MEDS No. 31S121750; NODC No. 3152175.

69-0002 Reeder, S.W., B. Hitchon and A.A. Levinson, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada -- I. Factors controlling inorganic composition. Geochim. Cosmochim. Acta *36*, 825-865.

69-0002 continued

National Research Council of Canada, 1972. Supporting field data sheets, sampling locations and annoted bibliography for: Reeder, S.W., B. Hitchon and A.A. Levinson, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada -- I. Factors controlling inorganic composition. Geochim. Cosmochim. Acta 36, 825-865. Depository of Unpublished Data National Science Library, National Research Council of Canada, Ottawa.

Hitchon, B. and H.R. Krouse, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada -- III. Stable isotopes of oxygen, carbon and sulphur. Geochim. Cosmochim. Acta 36, 1337-1357.

Peake, E., B.L. Baker and G.W. Hodgson, 1972. Hydrogeochemistry of the surface aters of the Mackenzie River drainage basin, Canada II. The contribution of amino acids, hydrocarbons and chlorins to the Beaufort Sea by the Mackenzie River system. Geochim. Cosmochim. Acta 36, 867-883.

70-0003 Dewis, F.J., A.A. Levinson and P. Bayliss, 1972. Hydrogeochemistry of the surface waters of the Mackenzie River drainage basin, Canada - IV. Boron - salinity - clay mineralogy relationships in modern deltas. Geochim. Cosmochim. Acta 36, 1359-1375.

70-0008 Peake, E., M. Strosher, B.L. Baker, R.Gossen, R.G. McCrossan,C.J. Yorath and G.W.Hodgson, 1972. The potential of Arctic sediments: Hydrocarbons and possible precursors in Beaufort Sea sediments. Proceedings: Twenty-Fourth International Geological Congress, Montreal. Section 5: 28-37.

71-0004 Grainger, E.H., J.E. Lovrity and M.S. Evans, 1977. Biological observations in the Eskimo Lakes, Arctic Canada. Physical, nutrient and primary production data 1961-1976. Environment Canada, Fisheries and Marine Service, Technical Report No. 685, 108 pp.

71-0005 Bowes, G.W. and C.J. Jonkel, 1975. Presence and distribution of polychlorinated biphenyls in marine food chains. J. Fish. Res. Board Can. 32 (11), 2111-2123.

72-0002 Naidu, A.S. and D.W. Hood, 1972. Chemical composition of bottom sediments of the Beaufort Sea, Arctic Ocean. Proceedings Twenty-Fourth International Geological Congress, Montreal. Section 10: 307-317.

Naidu, A.S. 1974. Sedimentation in the Beaufort Sea A Synthesis. (In) Marine Geology and Oceanography of the Arctic Seas. Y. Herman (Ed). Springer-Verlag, New York, pp. 173-190.

Naidu, A.S., and T.C. Mowalt, 1974. Clay Mineralogy and geochemistry of continental shelf sediments of the Beaufort Sea. (In) The Coast and Shelf of the Beaufort Sea. J.C. Reed and J.E. Sater (Eds). Arctic Institute of North America, pp. 493-510.

72-0003 Slaney, F.F. & Company Limited, 1973. 1972 Environmental Field Program, Taglu Richards Island, Mackenzie Delta. Interim Report Part 6: Pollution Testing. Report to Imperial Oil Limited, January 1973. (unpublished manuscript), 4 pp. + Appendices.

Slaney, F.F. & Company Limited, 1974. 1972 - 1974. Environmental Program - Mackenzie Delta N.W.T. Volume 7: Environmental Quality. Report to Imperial Oil Limited, Gulf Oil Canada Limited, Shell Canada Limited, Canadian Arctic Gas Study Limited, May 1974 (unpublished manuscript), 24 pp. + Appendices + References.

72-0004 See **71-0004**

72-0005 Addison, R.F. and P.F. Brodie, 1973. Occurrence of DDT residues in Beluga whales (Delphinapterus leucas) from the Mackenzie Delta, N.W.T. J. Fish. Res. Bd. Can. 30 (11), 1733-1736.

72-0006 Slaney, F.F. & Company Limited. 1972 Environmental Field Program, Taglu-Richards Island, Mackenzie Delta. Interim Report Part 4: Aquatic Systems. Report to Imperial Oil Limited, January 1973. (unpublished manuscript), 18 pp. + Appendices.

See **72-0003**

See **72-0007**

72-0007 Slaney, F.F. & Company. Limited, 1973. Environmetnal Impact Assessment, Immerk artificial island construction, Vol. II -environmental studies. Report to Imperial Oil Limited, January 1973 (unpublished manuscript), 58 pp + Tables.

See **72-0003**

72-0008 See **71-0005**

72-0014 Smith, T.G. and F.A.J. Armstrong, 1975. Mercury in seals, terrestrial carnivores, and principal food items of the Inuit, from Holman, N.W.T. J. Fish. Res. Bd. Can. 32 (6), 795-801.

73-0001 See **72-0007**

73-0002 Grainger, E.H. and J.E. Lovrity, 1975. Physical and chemical oceanographic data from the Beaufort Sea, 1960 to 1975. Canada Dept. of the Environment, Fisheries and Marine Service, Research and Development Directorate, Tech. Report No. 590, 52 pp.

73-0002 (continued)

Grainger, E.J., 1974. Nutrients in the Southern Beafort Sea. (In) The Coast and Shelf of the Beaufort Sea. J.C. Reed and J.E. Sater (Eds). Arctic Institute of North America, pp. 589-606.

Grainger, E.H., 1974. Baseline study of the marine environment in the area of the Mackenzie Delta. (In) Marine Ecology of the Mackenzie Delta and Tuktoyaktuk Peninsula Region, Part IIIa pp. 101-173. Task Force on Northern Oil Development Report No. 74-22.

Grainger, E.H., 1975. Biological Productivity of the Southern Beaufort Sea: The Physical-Chemical Environment and the Plankton. Beaufort Sea Technical Report No. 12A. Beaufort Sea Project, Victoria, B.C., 82 pp.

Bunch, J.N. and R.C. Harland. Biodegradation of crude petroleum by the indigenous microbial flora of the Beaufort Sea. Beaufort Sea Technical Report No. 10. Beaufort Sea Project, Victoria, B.C., 52 pp.

73-0003 See **71-0004**

74-0001 Slaney, F.F. & Company Limited, 1974. Winter benthic and oceanographic surveys, offshore Mackenzie Delta, N.W.T. Report to Imperial Oil Limited, June 1974. (unpublished manuscript), 25 pp + Appendices.

74-0003 Slaney, F.F. & Company Limited 1974. Summer environmental program, Mackenzie River Estuary. Volume I, Aquatic Studies. Report to Imperial Oil Limited, March 1975 (unpublished manuscript), 156 pp + Appendices.

74-0007 See **73-0002**

74-0008 Wong, C.S., R.W. Macdonald, R.D. Bellegay and P. Erickson, 1981. Baseline data on chemical oceanography in the southern Beaufort Sea, 1974-5. Beaufort Sea Technical Report No. 14. Beaufort Sea Project, Institute of Ocean Sciences, Sidney, B.C., 51 pp.

Wong, C.S., W.J. Cretney, R.W. Macdonald and P. Christensen, 1976. Hydrocarbon levels in the marine environment of the Southern Beaufort Sea. Beaufort Sea Technical Report No. 38. Beaufort Sea Project, Institute of Ocean Sciences, Sidney, B.C., 113 pp.

Wong, C.S., W.J. Cretney, R.W. Macdonald and P. Erickson, 1974. Baseline information on chemical oceanography and petroleum-based hydrocarbons in the southern Beaufort Sea. Interim Report of Beaufort Sea Project Study C3. Beaufort Sea Project, Victoria, B.C., 51 pp.

Wong, C.S., D. Macdonald and W.J. Cretney, 1976. Tar and particulate pollutants on the Beaufort Sea Coast. Beaufort Sea

Technical Report No. 13. Beaufort Sea Project, Victoria, B.C., 96 pp.

Wong, C.S., D. Macdonald and R.D. Bellegay, 1974. Distribution of tar and other particulate pollutants along the Beaufort Sea coast. Interim report of Beaufort Sea Project Study Cl, Beaufort Sea Project, Victoria, B.C. 69 pp.

Macdonald, R.W., 1976. Distribution of Low Molecular Weight Hydrocarbons in Southern Beaufort Sea. Env. Sci. Tech. 10 (13), 1241-1246.

Matsumoto, E., and C.S. Wong, 1977. The Distribution of Suspended Particles in the Southern Beaufort Sea. J. Oc. Soc. Jap. 33, 227-232.

Institute of Ocean Sciences, 1981. Ocean Chemistry Division, original data sheets.

74-0009 Slaney, F.F. & Company, Limited, 1974. Environmental Program, Mackenzie Delta N.W.T. Winter Study Supplement. Report to Imperial Oil Limited, Gulf Canada Limited, Shell Canada Limited, Canadian Arctic Gas Study Limited, May 1974 (unpublished manuscript), 74 pp. + References.

74-0010 See 71-0004

74-0011 Griffiths, W., P. Craig, G. Walder and G. Mann, 1975. Fisheries investigations in a coastal region of the Beaufort Sea (Nunaluk Lagoon, Yukon Territory). (In) Arctic Gas, Biological Report Series. P.C. Craig (Ed.). Volume 34 Chapter II. Canadian Arctic Gas Study Limited, Alaskan Arctic Gas Study Company.

74-0019 Slaney, F.F. & Company Limited, 1974. Winter Environmental Program: Unark, Pelly and Gary Artificial Island Sites, East Mackenzie Bay, N.W.T. A report to Sunoco E & P, Limited, May 1974 (unpublished manuscript), 34 pp. + References + Appendix.

74-0020 Percy, R., 1975. Fishes of the outer Mackenzie Delta. Beaufort Sea Technical Report No. 8, Beaufort Sea Project, Victoria, B.C. 114 pp.

74-0021 Kendel, R.E., R.A.C. Johnston, U. Lobsiger and M.D. Kozak, 1975. Fishes of the Yukon Coast. Beaufort Sea Technical Report No. 6. Beaufort Sea Project, Victoria, B.C., 114 pp.

74-0022 Mann, G.J., 1975. Winter fisheries survey across the Mackenzie Delta. (In) Arctic Gas, Biological Report Series. P.C. Craig (Ed.). Volume 34, Chapter III. Canadian Arctic Gas Study Limited, Alaskan Arctic Study Company, 53 pp.

75-0004 Slaney, F.F. & Company Limited, 1976. A summer survey of the physical oceanography and water chemistry of the Mackenzie Estuary N.W.T. 1975. Report to Imperial Oil Limited (unpublished manuscript), 146 pp. + Appendices.

75-0006 See **74-0008**

75-0009 Bornhold, B.D., 1975. Suspended matter in the southern Beaufort Sea. Beaufort Sea Technical Report No. 25b. Beaufort Sea Project, Victoria, B.C., 23 pp. + Appendix.

75-0010 See **71-0004**

75-0011 Slaney, F.F. & Company Limited, 1976. 1975 Hydrology Survey: Taglu-Richards Island, N.W.T. Report to Beaufort Gas Project, Imperial Oil Ltd., (unpublished manuscript), 51 pp. + References + Appendices.

75-0014 See **73-0002**

75-0024 See **74-0020**

75-0025 See **74-0021**

75-0026 NORCOR Engineering and Research Ltd., 1975. The interaction of crude oil with Arctic Sea ice. Beaufort Sea Technical Report No. 27. Beaufort Sea Project, Victoria. B.C., 145 pp. + Tables.

75-0027 Pelletier, B.R., 1975. Sediment dispersal in the Southern Beaufort Sea. Beaufort Sea Technical Report No. 25a. Beaufort Sea Project, Victoria, B.C., 80 pp.

75-0028 Adams, W.A., 1975. Light intensity and oil. Beaufort Sea Technical Report No. 29. Beaufort Sea Project, Victoria, B.C., 156 pp.

76-0003 Slaney, F.F. & Company Limited. 1977. Biophysical Data Appendix. Artificial Island Sites. Report to Imperial Oil Limited (unpublished manuscript - tables only), 80 pp.

See **76-0004**

See **76-0005**

76-0004 Slaney, F.F. & Company, Limited. 1977. 1976 Summer Aquatic Studies: Arnak L-30 Artificial Island Site and Tuft Point Borrow Site. Report to Imperial Oil Limited (unpublished manuscript), 117 pp. + Appendices.

See **76-0003**

McDonald, J.W. and G.M. Cambers, 1977. Environmental assessment of construction and construction support activities on the physical-chemical oceanography of the Mackenzie Estuary related to the proposed ten year Beaufort Sea offshore exploration program, Volume 2 Part 3, 38 pp. + References. (In)Slaney, F.F. & Company Limited, 1977. Environmental Assessment of construction and construction support activities related to the proposed ten year Beaufort Sea offshore exploration program, Volume 2, 255 pp. + References.

76-0005 See **76-0004**

See **76-0003**

76-0006 Slaney, F.F. & Company, Limited, 1977. Summer heavy metal studies: Netserk F-40 Artificial Island. A draft report to Imperial Oil Limited (unpublished manuscript), 42 pp. + Tables.

77-0001 Fraker, M.A., C.D. Gordon, J.W. McDonald, J.K.B. Ford and G. Chambers, 1979. White whale (*Delphinapterus* leucas) distribution and abundance and the relationship to physical and chemical characteristics of the Mackenzie Estuary. Can. Fish. Mar. Serv. Tech. Rep. 863, 56 pp.

77-0002 Aquatic Environments Ltd., 1977. Tuft Point and adjacent coastal areas fisheries project. Report to Imperial Oil Limited (unpublished manuscript), 152 pp.

77-0003 Macdonald, R.W., M.E. McFarland, S.J. de Mora, D.M. Macdonald and W.K. Johnson, 1978. Oceanographic Data Report, Amundsen Gulf, August to September, 1977. Pacific Marine Science Report 78-10. Institute of Ocean Sciences, Patricia Bay, Sidney, B.C., 92 pp.

77-0006 Stich, H.F. and B.P. Dunn, 1980. The carcinogenic load of the environment: benzo(a)pyrene in the sediments of Arctic Waters. Arctic *33*(4), 807-814.

77-0007 Thomas, D.J., 1977a. Copper, zinc, cadmium, lead, chromium, mercury and iron in sediment, sea water and zoobenthos at selected Dome drillsites in the Beaufort Sea - Summer 1977. A report prepared by Seakem Oceanography Limited, Sidney, B.C. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 114 pp.

77-0008 Beak Consultants Limited, 1978. Heavy Metals Project, Mackenzie Delta and Estuary. A report prepared for Imperial Oil Limited, Calgary, Alberta (unpublished manuscript), 63 pp. + Appendices.

77-0009 Environcon Limited, 1977. Isserk Artificial Island environmental baseline and monitoring study 1977. A report prepared for Imperial Oil Limited, Calgary, Alberta (unpublished manuscript), 125 pp. + Tables.

77-0010 Thomas, D.J., 1977b. Dissolved and sediment concentrations of cadmium chronmium, copper, lead, zinc, nickel, iron and mercury at the Dome Tingmiark K-91 drillsite. A report prepared for Dome Petroleum Limited, Calgary, Alberta by Seakem Oceanography Ltd., Sidney, B.C. (unpublished manuscript), 14pp.

78-0002 Thomas, D.J., 1978a. Tingmiark K-91 and Kopanoar D-14. A chemical study one year after the occurrence of shallow water flow, July 1978. A report prepared by Seakem Oceanography Ltd., Sidney, B.C. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), pp.

78-0017 Smith, T.G. and F.A.J. Armstrong, 1978. Mercury and selenium in ringed bearded seal tissues from Arctic Canada. Arctic 31(2), 75-84.

78-0018 Thomas, D.J., 1978b. A baseline chemical survey at Tarsiut A-25, July 1978. A report prepared by Seakem Oceanography Ltd., Sidney, B.C. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 35 pp.

78-0019 Thomas, D.J., 1978c. Kaglulik A-75. A chemical study during shallow water flow, July 1978. A report prepared by Seakem Oceanography Ltd., Sidney, B.C. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 31 pp.

79-0005 Thomas, D.J., 1979a. Canmar-Summer's Harbour coaldusting operations, 1979: Environmental Monitoring. A report prepared by Arctic Laboratories Limited, Inuvik N.W.T. for Canadian Marine Drilling Limited Calgary, Alberta (unpublished manuscript), 33 pp.

79-0006 Thomas, D.J. 1979b. Dome Petroleum - McKinley Bay Dredging Programme Phase I: Geochemical baseline survey and environmental monitoring during 1979 operations. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 80 pp.

79-0007 Thomas, D.J., 1979c. A baseline chemical survey at Kilannak A-77, July 1979. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 44 pp.

79-0008 Brown, D.A., K.A. Thompson and D.J. Thomas, 1979. Canmar: A Histopatholological evaluation of organisms from Tingmiark K-91, Ukalerk 2C-50 and Kenalooak J-94. A report prepared by Arctic Laboratories Limited, Inuvik, N.W.T. for Canada-Marine Drilling Limited Calgary, Alberta, (unpublished manuscript), 81 pp.

79-0009 Thomas, D.J. 1979d. The effect of discharge drilling fluid waste on primary productivity at Nerlerk M-98. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Canadian Marine Drilling Limited, Calgary, Alberta (unpublished manuscript), 31 pp.

79-0010 See **79-0006**

80-0003 Thomas, D.J., 1980. Dome Petroleum Limited: Water quality measurements and dredge spoil monitoring at McKinley Bay, N.W.T., 1980. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited, Calgary, Alberta (unpublished manuscript), 41 pp.

80-0004 Thomas, D.J., W.A. Heath, K.A. Thompson and J.M. Koleba, 1981. An oceanographic study of Tuktoyaktuk Harbour, N.W.T. 1980. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 244 pp.

80-0005 See **80-0003**

80-0006 Beak Consultants Limited, 1981. Baseline Biological and Chemical Study, Issungnak 0-61, Beaufort Sea 1980. A report prepared for Esso Resources Canada Limited Calgary, Alberta (unpublished manuscript), 63 pp. + References

80-0016 Humphrey, B., 1980. Dome/Canmar oil under ice experiment. A report prepared by Arctic Laboratories Limited, Inuvik N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 105 pp.

Buist, I.A., W.M. Pistruzak and D.F. Dickins 1981. Dome Petroleum's Oil and Gas Under Sea Ice Study. Proceedings 1981 Oil Spill conference. (Prevention, Behaviour, Control, Clean-up) March 2-5, 1981 Atlanta, U.S.A. Paper 196, pp. 183-189.

81-0003 Erickson, P.E., 1981. Issungnak Oceanographic Survey. A progress report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Esso Resources Canada Limited, August 31, 1981 (unpublished manuscript), 44 pp.

81-0004 Esso Resources Canada Limited, 1981. Chemical analysis of copper, cadmium, zinc, nickel, chromium, mercury and hexane soluble residues in sediment cores from sites in the Southern Beaufort Sea. A data report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Esso Resources Canada Limited Calgary, Alberta (unpublished manuscript), 12 pp.

81-0005 Thomas, D.J., K. Thompson, G. Roe and W. Heath 1981. A chemical and biological assessment of the environmental inpact of the 1974/5 experimental oil spills and Balaena Bay, N.W.T. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Gulf Canada Resources Inc. Calgary, Alberta, 131pp. (In) Return to Balaena, D.F. Dickins Engineering, Vancouver, B.C., 171 pp. + Appendix.

81-0010 Esso Resources Canada Limited, 1981. Copper, cadmium, zinc, mercury, chromium, nickel, iron, lead, Vanadium, arsenic, beryllium and hexane extractable residue content of sediments from Alerk and West Atkinson locations. A data report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Esso Resources Canada Limited Calgary, Alberta (unpublished data), 6 pp.

81-0011 Thomas, D.J, 1981a. Environmental monitoring at McKinley Bay, N.W.T. relating to Ocean Dumping control Act Permit 4443-001194. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 15 pp.

81-0012 Thomas, D.J., 1981b. Extractable hydrocarbons in the surficial sediments of the moorage basin at McKinley Bay, Northwest Territories 1981. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 14 pp.

81-0013 Erickson, P.E., and R. Pett, 1981. Concentrations of suspended particulate material and dissolved oxygen in Tuktoyaktuk Harbour near dredging conducted by the Government of the Northwest Territories June 18 - July 6, 1981. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Dome Petroleum Limited Calgary, Alberta, (unpublished manuscript), 71 pp.

81-0014 Thomas, D.J., 1981c. Hexane extractable compounds in McKinley Bay Sediments, N.W.T. A data report prepared by Arctic Laboratories Limited Inuvik N.W.T. for Environmental Protection Service, Environment Canada Yellowknife, N.W.T. (unpublished data), 4 pp.

81-0015 Pett, R., J. Acreman and G. Vickers, 1981. The ice flora and plankton near Issungnak artificial island in the Southern Beaufort Sea. A progress report prepared by Arctic Laboratories Limited Inuvik, N.W.T. for Arctic Biological Station, Fisheries and Oceans, Ste-Anne de Bellvue, Quebec (unpublished manuscript), 44 pp.

81-0018 Thomas, D.J., W.A. Heath, J.M. Koleba, B.M. Perry and A.G. Ethier, 1982. A study of the benthos and sediment chemistry at Tarsiut N-44 Artificial Island and South Tarsiut Borrow Area - 1980 and 1981. A report prepared by Arctic Laboratories Limited Inuvik, N.W.T., for Dome Petroleum Limited Calgary, Alberta (unpublished manuscript), 160 pp.

Volumes currently available.

1. Beaufort Sea: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.
2. Beaufort Sea: Chemical Oceanography.